



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	18.58	18.60	18.55	20.00
		1	38	18.55	18.48	18.54	20.00
		1	74	18.39	18.42	18.49	20.00
		36	0	18.72	18.64	18.77	20.00
		36	18	18.72	18.68	18.70	20.00
		36	39	18.64	18.62	18.60	20.00
		75	0	18.72	18.75	18.67	20.00
	16QAM	1	0	18.77	18.88	18.89	20.00
		1	38	18.75	18.64	18.74	20.00
		1	74	18.67	18.64	18.62	20.00
		36	0	18.71	18.73	18.71	20.00
		36	18	18.71	18.70	18.65	20.00
		36	39	18.71	18.65	18.68	20.00
		75	0	18.74	18.79	18.75	20.00
	64QAM	1	0	18.64	18.65	18.64	20.00
		1	38	18.41	18.54	18.47	20.00
		1	74	18.50	18.44	18.48	20.00
		36	0	18.59	18.66	18.63	20.00
		36	18	18.70	18.61	18.66	20.00
		36	39	18.66	18.65	18.70	20.00
		75	0	18.67	18.71	18.63	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	18.59	18.77	18.65	20.00
		1	50	18.54	18.61	18.66	20.00
		1	99	18.53	18.51	18.55	20.00
		50	0	18.72	18.73	18.75	20.00
		50	25	18.86	18.80	18.61	20.00
		50	50	18.65	18.65	18.72	20.00
		100	0	18.73	18.77	18.69	20.00
	16QAM	1	0	18.90	18.89	18.83	20.00
		1	50	18.71	18.81	18.74	20.00
		1	99	18.59	18.77	18.59	20.00
		50	0	18.73	18.78	18.73	20.00
		50	25	18.81	18.76	18.78	20.00
		50	50	18.71	18.73	18.72	20.00
		100	0	18.78	18.83	18.77	20.00
	64QAM	1	0	18.60	18.61	18.67	20.00
		1	50	18.47	18.57	18.59	20.00
		1	99	18.54	18.60	18.52	20.00
		50	0	18.73	18.68	18.76	20.00
		50	25	18.69	18.75	18.73	20.00
		50	50	18.75	18.73	18.68	20.00
		100	0	18.74	18.78	18.72	20.00



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LTE Band 38 Receiver off/Hotspot off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	21.39	21.50	21.46	23.00
		1	13	21.45	21.62	21.56	23.00
		1	24	21.39	21.52	21.43	23.00
		12	0	20.43	20.43	20.40	22.00
		12	6	20.50	20.58	20.46	22.00
		12	13	20.53	20.52	20.46	22.00
		25	0	20.46	20.53	20.51	22.00
	16QAM	1	0	20.56	20.65	20.60	22.00
		1	13	20.55	20.72	20.65	22.00
		1	24	20.54	20.55	20.65	22.00
		12	0	19.46	19.43	19.43	21.00
		12	6	19.53	19.48	19.50	21.00
		12	13	19.44	19.52	19.51	21.00
		25	0	19.53	19.58	19.59	21.00
	64QAM	1	0	19.79	20.03	19.76	21.00
		1	13	19.68	19.67	19.67	21.00
		1	24	19.51	19.53	19.79	21.00
		12	0	18.80	18.70	18.77	20.00
		12	6	18.77	18.79	18.62	20.00
		12	13	18.81	18.76	18.76	20.00
		25	0	18.74	18.74	18.74	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	21.44	21.38	21.48	23.00
		1	25	21.39	21.37	21.36	23.00
		1	49	21.15	21.44	21.35	23.00
		25	0	20.44	20.53	20.46	22.00
		25	13	20.54	20.56	20.52	22.00
		25	25	20.52	20.57	20.55	22.00
		50	0	20.48	20.54	20.53	22.00
	16QAM	1	0	20.55	20.65	20.74	22.00
		1	25	20.67	20.65	20.55	22.00
		1	49	20.50	20.58	20.73	22.00
		25	0	19.40	19.58	19.40	21.00
		25	13	19.60	19.61	19.61	21.00
		25	25	19.48	19.52	19.54	21.00
		50	0	19.51	19.61	19.68	21.00
	64QAM	1	0	19.80	19.83	19.80	21.00
		1	25	19.65	19.76	19.67	21.00
		1	49	19.68	19.61	19.63	21.00
		25	0	18.77	18.76	18.76	20.00
		25	13	18.74	18.76	18.70	20.00
		25	25	18.70	18.76	18.75	20.00
		50	0	18.72	18.83	18.76	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	21.57	21.58	21.61	23.00
		1	38	21.48	21.61	21.52	23.00
		1	74	21.54	21.59	21.50	23.00
		36	0	20.75	20.66	20.74	22.00
		36	18	20.76	20.71	20.68	22.00
		36	39	20.68	20.75	20.68	22.00
		75	0	20.69	20.77	20.65	22.00
	16QAM	1	0	20.83	20.82	20.83	22.00
		1	38	20.74	20.67	20.71	22.00
		1	74	20.76	20.64	20.58	22.00
		36	0	19.72	19.78	19.76	21.00
		36	18	19.67	19.73	19.61	21.00
		36	39	19.62	19.68	19.70	21.00
		75	0	19.77	19.83	19.72	21.00
	64QAM	1	0	19.79	19.95	19.81	21.00
		1	38	19.78	19.69	19.68	21.00
		1	74	19.62	19.53	19.70	21.00
		36	0	18.80	18.81	18.77	20.00
		36	18	18.77	18.80	18.72	20.00
		36	39	18.72	18.78	18.67	20.00
		75	0	18.74	18.75	18.63	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	21.58	21.81	21.81	23.00
		1	50	21.55	21.65	21.58	23.00
		1	99	21.52	21.52	21.51	23.00
		50	0	20.70	20.69	20.80	22.00
		50	25	20.81	20.76	20.64	22.00
		50	50	20.73	20.75	20.74	22.00
		100	0	20.71	20.75	20.75	22.00
	16QAM	1	0	20.80	20.91	20.93	22.00
		1	50	20.75	20.74	20.73	22.00
		1	99	20.59	20.75	20.53	22.00
		50	0	19.68	19.76	19.84	21.00
		50	25	19.75	19.83	19.70	21.00
		50	50	19.74	19.72	19.71	21.00
		100	0	19.79	19.82	19.72	21.00
	64QAM	1	0	19.78	19.76	19.96	21.00
		1	50	19.68	19.79	19.84	21.00
		1	99	19.80	19.63	19.65	21.00
		50	0	18.70	18.82	18.83	20.00
		50	25	18.77	18.81	18.74	20.00
		50	50	18.73	18.69	18.72	20.00
		100	0	18.74	18.75	18.76	20.00



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LTE Band 41 Receiver on/Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	18.77	18.55	18.48	18.49	18.55	20.00
		1	13	18.70	18.63	18.65	18.61	18.68	20.00
		1	24	18.63	18.58	18.52	18.59	18.63	20.00
		12	0	18.73	18.55	18.53	18.45	18.60	20.00
		12	6	18.70	18.60	18.58	18.55	18.70	20.00
		12	13	18.71	18.58	18.61	18.58	18.66	20.00
		25	0	18.65	18.53	18.48	18.48	18.56	20.00
	16QAM	1	0	18.88	18.48	18.65	18.67	18.80	20.00
		1	13	18.82	18.65	18.76	18.65	18.71	20.00
		1	24	18.88	18.72	18.66	18.75	18.77	20.00
		12	0	18.72	18.49	18.54	18.42	18.59	20.00
		12	6	18.75	18.54	18.54	18.48	18.62	20.00
		12	13	18.67	18.54	18.56	18.50	18.56	20.00
		25	0	18.75	18.62	18.54	18.56	18.60	20.00
	64QAM	1	0	18.75	18.54	18.55	18.49	18.55	20.00
		1	13	18.68	18.62	18.64	18.60	18.68	20.00
		1	24	18.69	18.48	18.51	18.58	18.53	20.00
		12	0	18.71	18.53	18.52	18.53	18.60	20.00
		12	6	18.69	18.58	18.57	18.54	18.71	20.00
		12	13	18.70	18.50	18.59	18.56	18.65	20.00
		25	0	18.62	18.52	18.47	18.52	18.60	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	18.51	18.28	18.37	18.49	18.41	20.00
		1	25	18.50	18.41	18.43	18.39	18.51	20.00
		1	49	18.41	18.31	18.47	18.24	18.42	20.00
		25	0	18.68	18.54	18.52	18.46	18.54	20.00
		25	13	18.64	18.58	18.55	18.60	18.60	20.00
		25	25	18.75	18.56	18.60	18.58	18.64	20.00
		50	0	18.71	18.54	18.51	18.57	18.61	20.00
	16QAM	1	0	18.77	18.68	18.68	18.66	18.68	20.00
		1	25	18.66	18.63	18.73	18.53	18.79	20.00
		1	49	18.78	18.45	18.64	18.61	18.52	20.00
		25	0	18.69	18.54	18.49	18.52	18.50	20.00
		25	13	18.70	18.64	18.60	18.63	18.56	20.00
		25	25	18.63	18.50	18.56	18.42	18.60	20.00
		50	0	18.76	18.63	18.58	18.66	18.69	20.00
	64QAM	1	0	18.46	18.38	18.37	18.37	18.45	20.00
		1	25	18.54	18.34	18.44	18.35	18.51	20.00
		1	49	18.54	18.35	18.29	18.33	18.35	20.00
		25	0	18.65	18.55	18.53	18.56	18.59	20.00
		25	13	18.77	18.58	18.56	18.60	18.57	20.00
		25	25	18.66	18.57	18.60	18.59	18.61	20.00
		50	0	18.71	18.55	18.52	18.62	18.58	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	18.67	18.56	18.63	18.70	18.73	20.00
		1	38	18.66	18.23	18.62	18.60	18.45	20.00
		1	74	18.65	18.29	18.74	18.58	18.61	20.00
		36	0	18.85	18.68	18.71	18.64	18.86	20.00
		36	18	18.82	18.74	18.75	18.76	18.74	20.00
		36	39	18.81	18.62	18.77	18.75	18.80	20.00
		75	0	18.83	18.74	18.69	18.71	18.79	20.00
	16QAM	1	0	18.85	18.91	18.99	18.86	18.92	20.00
		1	38	18.81	18.74	18.79	18.77	18.76	20.00
		1	74	18.92	18.90	18.90	18.83	18.91	20.00
		36	0	18.83	18.70	18.74	18.72	18.81	20.00
		36	18	18.76	18.71	18.79	18.76	18.69	20.00
		36	39	18.85	18.70	18.79	18.67	18.75	20.00
		75	0	18.92	18.75	18.75	18.80	18.79	20.00
	64QAM	1	0	18.76	18.57	18.72	18.66	18.80	20.00
		1	38	18.57	18.63	18.55	18.61	18.61	20.00
		1	74	18.65	18.54	18.58	18.59	18.70	20.00
		36	0	18.86	18.68	18.72	18.73	18.78	20.00
		36	18	18.83	18.74	18.67	18.76	18.82	20.00
		36	39	18.81	18.71	18.77	18.65	18.79	20.00
		75	0	18.84	18.75	18.70	18.71	18.71	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	19.17	18.90	18.75	18.90	18.96	20.00
		1	50	18.60	18.55	18.64	18.64	18.72	20.00
		1	99	18.66	18.52	19.16	18.64	18.62	20.00
		50	0	18.83	18.75	18.70	18.78	18.80	20.00
		50	25	18.89	18.87	18.74	18.76	18.87	20.00
		50	50	18.80	18.69	18.71	18.73	18.84	20.00
		100	0	18.85	18.78	18.68	18.79	18.86	20.00
	16QAM	1	0	19.00	19.07	19.04	19.11	19.09	20.00
		1	50	18.79	18.78	18.80	18.70	18.97	20.00
		1	99	18.85	18.84	18.89	18.84	18.91	20.00
		50	0	18.97	18.80	18.77	18.81	18.86	20.00
		50	25	18.97	18.82	18.72	18.80	18.93	20.00
		50	50	18.85	18.75	18.80	18.68	18.88	20.00
		100	0	18.97	18.85	18.78	18.76	18.92	20.00
	64QAM	1	0	18.73	18.72	18.84	18.80	18.71	20.00
		1	50	18.65	18.63	18.60	18.64	18.71	20.00
		1	99	18.63	18.52	18.59	18.73	18.72	20.00
		50	0	18.83	18.68	18.78	18.69	18.80	20.00
		50	25	18.85	18.69	18.64	18.75	18.86	20.00
		50	50	18.80	18.60	18.71	18.73	18.84	20.00
		100	0	18.84	18.70	18.76	18.78	18.86	20.00



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LTE Band 41 Receiver off/Hotspot off				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	21.70	21.55	21.45	21.51	21.58	23.00
		1	13	21.63	21.59	21.57	21.51	21.62	23.00
		1	24	21.62	21.55	21.44	21.50	21.48	23.00
		12	0	20.67	20.47	20.53	20.48	20.62	22.00
		12	6	20.72	20.53	20.59	20.50	20.64	22.00
		12	13	20.69	20.56	20.53	20.52	20.59	22.00
		25	0	20.66	20.57	20.53	20.43	20.58	22.00
	16QAM	1	0	20.78	20.47	20.58	20.65	20.55	22.00
		1	13	20.72	20.66	20.74	20.60	20.71	22.00
		1	24	20.88	20.55	20.66	20.71	20.71	22.00
		12	0	19.68	19.49	19.54	19.44	19.55	21.00
		12	6	19.70	19.55	19.50	19.45	19.66	21.00
		12	13	19.71	19.53	19.53	19.48	19.60	21.00
		25	0	19.72	19.61	19.59	19.53	19.56	21.00
	64QAM	1	0	19.97	19.79	19.90	19.90	19.98	21.00
		1	13	19.82	19.67	19.85	19.70	19.81	21.00
		1	24	19.90	19.74	19.82	19.73	19.76	21.00
		12	0	18.85	18.78	18.73	18.73	18.78	20.00
		12	6	18.85	18.81	18.71	18.72	18.84	20.00
		12	13	18.84	18.74	18.76	18.69	18.75	20.00
		25	0	18.94	18.83	18.80	18.73	18.85	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	21.61	21.35	21.58	21.47	21.57	23.00
		1	25	21.50	21.42	21.49	21.37	21.50	23.00
		1	49	21.59	21.24	21.48	21.26	21.45	23.00
		25	0	20.68	20.45	20.57	20.51	20.63	22.00
		25	13	20.67	20.57	20.56	20.58	20.61	22.00
		25	25	20.71	20.56	20.63	20.52	20.67	22.00
		50	0	20.68	20.54	20.52	20.51	20.55	22.00
	16QAM	1	0	20.79	20.66	20.75	20.57	20.76	22.00
		1	25	20.64	20.58	20.67	20.56	20.70	22.00
		1	49	20.63	20.62	20.61	20.45	20.71	22.00
		25	0	19.78	19.50	19.43	19.51	19.62	21.00
		25	13	19.71	19.52	19.42	19.59	19.60	21.00
		25	25	19.66	19.41	19.47	19.52	19.65	21.00
		50	0	19.75	19.67	19.58	19.62	19.64	21.00
	64QAM	1	0	19.97	19.86	19.89	19.89	19.99	21.00
		1	25	19.84	19.69	19.73	19.69	19.83	21.00
		1	49	19.73	19.58	19.81	19.83	19.77	21.00
		25	0	18.97	18.72	18.83	18.77	18.83	20.00
		25	13	18.87	18.83	18.78	18.81	18.85	20.00
		25	25	18.85	18.69	18.79	18.72	18.79	20.00
		50	0	18.86	18.77	18.78	18.71	18.81	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	21.76	21.61	21.76	21.65	21.76	23.00
		1	38	21.72	21.48	21.55	21.60	21.61	23.00
		1	74	21.69	21.56	21.69	21.63	21.73	23.00
		36	0	20.84	20.71	20.70	20.71	20.81	22.00
		36	18	20.94	20.78	20.67	20.76	20.71	22.00
		36	39	20.82	20.69	20.65	20.67	20.79	22.00
		75	0	20.85	20.72	20.75	20.73	20.69	22.00
	16QAM	1	0	21.01	20.96	20.88	20.80	21.11	22.00
		1	38	20.85	20.78	20.90	20.61	20.79	22.00
		1	74	20.82	20.77	20.84	20.86	20.91	22.00
		36	0	19.84	19.73	19.73	19.74	19.79	21.00
		36	18	19.87	19.73	19.70	19.74	19.77	21.00
		36	39	19.75	19.71	19.78	19.66	19.75	21.00
		75	0	19.88	19.85	19.72	19.76	19.70	21.00
	64QAM	1	0	19.98	19.95	20.06	19.90	19.96	21.00
		1	38	19.74	19.59	19.76	19.81	19.74	21.00
		1	74	19.81	19.66	19.72	19.75	19.66	21.00
		36	0	18.96	18.71	18.82	18.73	18.79	20.00
		36	18	18.86	18.72	18.72	18.82	18.76	20.00
		36	39	18.85	18.75	18.81	18.70	18.77	20.00
		75	0	18.86	18.75	18.71	18.76	18.77	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	21.98	21.62	21.72	21.85	21.94	23.00
		1	50	21.61	21.60	21.71	21.63	21.59	23.00
		1	99	21.61	21.54	21.64	21.62	21.69	23.00
		50	0	20.95	20.66	20.70	20.71	20.83	22.00
		50	25	20.96	20.75	20.76	20.79	20.83	22.00
		50	50	20.81	20.70	20.78	20.77	20.84	22.00
		100	0	20.89	20.79	20.70	20.73	20.84	22.00
	16QAM	1	0	20.99	20.87	21.09	21.02	21.05	22.00
		1	50	20.78	20.76	20.79	20.80	20.81	22.00
		1	99	20.93	20.62	20.69	20.80	20.69	22.00
		50	0	19.99	19.76	19.86	19.78	19.85	21.00
		50	25	19.91	19.83	19.73	19.72	19.86	21.00
		50	50	19.80	19.76	19.84	19.79	19.84	21.00
		100	0	19.88	19.76	19.66	19.82	19.85	21.00
	64QAM	1	0	20.05	19.95	20.09	19.91	20.06	21.00
		1	50	19.80	19.62	19.77	19.71	19.84	21.00
		1	99	19.80	19.68	19.83	19.75	19.70	21.00
		50	0	18.93	18.74	18.76	18.79	18.78	20.00
		50	25	18.92	18.81	18.81	18.83	18.83	20.00
		50	50	18.91	18.71	18.82	18.81	18.82	20.00
		100	0	18.92	18.79	18.79	18.74	18.83	20.00

Table 22: Conducted Power of LTE



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8.1.5 Conducted Power of Uplink & Downlink LTE CA

8.1.5.1 Conducted Power of uplink LTE CA

• Uplink LTE CA Conducted Power of Ant2

Combination	Modulation	PCC						SCC					Full power		Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	23.14	24.00	20.09	21.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	23.11	24.00	20.18	21.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	23.18	24.00	20.17	21.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	23.21	24.00	20.19	21.00

Combination	Modulation	PCC						SCC					Full power	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	23.19	24.00
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	23.16	24.00
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	23.12	24.00
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	23.15	24.00

• Uplink LTE CA Conducted Power of Ant4

Sphinx LTE CA Conducted Power Chart																
Combination	Modulation	PCC						SCC					Receiver off/Hotspot off		Receiver on/Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	19.71	21.00	16.88	18.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	19.69	21.00	16.69	18.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	19.76	21.00	16.70	18.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	19.79	21.00	16.85	18.00

Combination	Modulation	PCC						SCC					Receiver off/Hotspot off		Receiver on/Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	21.78	23.00	18.55	20.00
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	21.61	23.00	18.49	20.00
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	21.52	23.00	18.48	20.00
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	21.66	23.00	18.50	20.00

Table 23: Conducted Power of uplink LTE CA



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8.1.5.2 Conducted Power of Downlink LTE CA

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation is inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that require power measurements are highlighted in the table as below:

1 band / 2CC	2 bands / 2CC
CA_7C	
CA_7A-7A	
CA_38C	
	CA_5A-7A



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• Downlink LTE CA Conducted Power of Ant0 & Ant2

Down Ant Receiver off/Hotspot off																	
DL LTE CA Class	PCC							SCC1				SCC2				Power(dBm)	
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx Power	LTE Rel 8 Tx Power
CA_7C	Band 7	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.2	3152	/	/	/	/	23.21	23.25
CA_7A-7A	Band 7	20M	QPSK	2560	21350	1	0	Band 7	20M	2630	2850	/	/	/	/	22.18	23.25
CA_38C	Band 38	20M	QPSK	2580	37850	1	0	Band 38	20M	2599.8	38048	/	/	/	/	23.18	23.23
CA_5A-7A	Band 5	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	/	/	/	/	22.71	22.75
CA_5A-7A	Band 7	20M	QPSK	2560	21350	1	0	Band 5	10M	881.5	2525	/	/	/	/	23.19	23.25

Down Ant Receiver on/Hotspot on																	
DL LTE CA Class	PCC							SCC1				SCC2				Power(dBm)	
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx Power	LTE Rel 8 Tx Power
CA_7C	Band 7	20M	16QAM	2560	21350	1	0	Band 7	20M	2660.2	3152	/	/	/	/	20.59	20.67
CA_7A-7A	Band 7	20M	16QAM	2560	21350	1	0	Band 7	20M	2630	2850	/	/	/	/	20.63	20.67
CA_38C	Band 38	20M	QPSK	2580	37850	1	0	Band 38	20M	2599.8	38048	/	/	/	/	23.18	23.23
CA_5A-7A	Band 5	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	/	/	/	/	22.71	22.75
CA_5A-7A	Band 7	20M	16QAM	2560	21350	1	0	Band 5	10M	881.5	2525	/	/	/	/	20.66	20.67

• Downlink LTE CA Conducted Power of Ant1 & Ant4

Upper Ant Receiver off/Hotspot off																	
DL LTE CA Class	PCC							SCC1				SCC2				Power(dBm)	
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx Power	LTE Rel 8 Tx Power
CA_7C	Band 7	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.2	3152	/	/	/	/	19.79	19.84
CA_7A-7A	Band 7	20M	QPSK	2560	21350	1	0	Band 7	20M	2630	2850	/	/	/	/	19.81	19.84
CA_38C	Band 38	20M	QPSK	2610	38150	1	0	Band 7	20M	2590.2	37952	/	/	/	/	21.76	21.81
CA_5A-7A	Band 5	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	/	/	/	/	22.92	22.97
CA_5A-7A	Band 7	20M	QPSK	2560	21350	1	0	Band 5	10M	881.5	2525	/	/	/	/	19.80	19.84

Upper Ant Receiver on/Hotspot on																	
DL LTE CA Class	PCC							SCC1				SCC2				Power(dBm)	
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx Power	LTE Rel 8 Tx Power
CA_7C	Band 7	20M	16QAM	2560	21350	1	0	Band 7	20M	2660.2	3152	/	/	/	/	17.09	17.11
CA_7A-7A	Band 7	20M	16QAM	2560	21350	1	0	Band 7	20M	2630	2850	/	/	/	/	17.06	17.11
CA_38C	Band 38	20M	16QAM	2580	37850	1	0	Band 38	20M	2599.8	38048	/	/	/	/	18.87	18.90
CA_5A-7A	Band 5	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	/	/	/	/	22.92	22.97
CA_5A-7A	Band 7	20M	16QAM	2560	21350	1	0	Band 5	10M	881.5	2525	/	/	/	/	17.05	17.11

Table 24: Conducted Power of Downlink LTE CA

Note:

The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.



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8.1.6 Conducted Power of WIFI and BT

WiFi 2.4G MIMO(Receiver off)						
Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	24.00	23.01	No
	6	2437		24.00	23.02	Yes
	11	2462		24.00	23.00	No
802.11g	1	2412	6	24.00	22.37	No
	6	2437		24.00	22.23	No
	11	2462		24.00	22.32	No
802.11n HT20 SISO	1	2412	6.5	24.00	22.05	No
	6	2437		24.00	22.10	No
	11	2462		24.00	22.07	No
802.11n HT40 SISO	3	2422	13.5	22.00	21.22	No
	6	2437		22.00	21.13	No
	9	2452		22.00	21.07	No

WiFi 2.4G MIMO 802.11ax(Receiver off)					
Mode	Tones	Channel	tune up	Average Power (dBm)	SAR Test
802.11 ax 20M	RU26	1	22.00	23.00	No
		6	22.00	20.84	No
		11	22.00	21.43	No
802.11 ax 20M	RU52	1	22.00	20.32	No
		6	22.00	20.84	No
		11	22.00	21.65	No
802.11 ax 20M	RU106	1	22.00	20.74	No
		6	22.00	20.83	No
		11	22.00	21.53	No
802.11 ax 20M	RU242	1	22.00	21.27	No
		6	22.00	21.14	No
		11	22.00	21.04	No
802.11 ax 40M	RU242	3	22.00	21.49	No
		6	22.00	21.16	No
		9	22.00	21.27	No
802.11 ax 40M	RU848	3	22.00	21.27	No
		6	22.00	21.34	No
		9	22.00	21.08	No



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WiFi 2.4G MIMO(Receiver on)						
Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	19.00	17.87	Yes
	6	2437		19.00	17.95	Yes
	11	2462		19.00	17.52	No
802.11g	1	2412	6	19.00	17.78	No
	6	2437		19.00	17.82	No
	11	2462		19.00	17.95	No
802.11n HT20 SISO	1	2412	6.5	19.00	17.48	No
	6	2437		19.00	17.60	No
	11	2462		19.00	17.47	No
802.11n HT40 SISO	3	2422	13.5	18.00	16.93	No
	6	2437		18.00	16.94	No
	9	2452		18.00	16.83	No

WiFi 2.4G MIMO 802.11ax(Receiver on)					
Mode	Tones	Channel	tune up	Average Power (dBm)	SAR Test
802.11 ax 20M	RU26	1	18.00	16.07	No
		6	18.00	16.70	No
		11	18.00	17.53	No
802.11 ax 20M	RU52	1	18.00	16.32	No
		6	18.00	16.76	No
		11	18.00	17.53	No
802.11 ax 20M	RU106	1	18.00	16.98	No
		6	18.00	16.61	No
		11	18.00	17.51	No
802.11 ax 20M	RU242	1	18.00	17.23	No
		6	18.00	17.07	No
		11	18.00	17.18	No
802.11 ax 40M	RU242	3	18.00	17.18	No
		6	18.00	16.96	No
		9	18.00	17.44	No
802.11 ax 40M	RU848	3	18.00	17.29	No
		6	18.00	17.32	No
		9	18.00	17.14	No



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WWAN + WiFi 2.4G MIMO(Receiver on)						
Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	tune up	Average Power (dBm)	SAR Test
802.11b	1	2412	1	17.00	15.78	No
	6	2437		17.00	16.03	Yes
	11	2462		17.00	15.51	No
802.11g	1	2412	6	17.00	15.71	No
	6	2437		17.00	15.78	No
	11	2462		17.00	15.87	No
802.11n HT20 SISO	1	2412	6.5	17.00	15.40	No
	6	2437		17.00	15.60	No
	11	2462		17.00	15.46	No
802.11n HT40 SISO	3	2422	13.5	16.00	14.83	No
	6	2437		16.00	14.89	No
	9	2452		16.00	14.78	No

WWAN + WiFi 2.4G MIMO 802.11ax(Receiver on)					
Mode	Tones	Channel	tune up	Average Power (dBm)	SAR Test
802.11 ax 20M	RU26	1	16.00	14.04	No
		6	16.00	14.66	No
		11	16.00	15.46	No
802.11 ax 20M	RU52	1	16.00	14.32	No
		6	16.00	14.70	No
		11	16.00	15.52	No
802.11 ax 20M	RU106	1	16.00	14.88	No
		6	16.00	14.51	No
		11	16.00	15.51	No
802.11 ax 20M	RU242	1	16.00	15.17	No
		6	16.00	15.05	No
		11	16.00	15.08	No
802.11 ax 40M	RU242	3	16.00	15.10	No
		6	16.00	14.96	No
		9	16.00	15.42	No
802.11 ax 40M	RU848	3	16.00	15.26	No
		6	16.00	15.32	No
		9	16.00	15.09	No



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WiFi 5G MIMO(Receiver off)							
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	21.5	20.56	No
		40	5200		21.5	20.45	No
		44	5220		21.5	20.35	No
		48	5240		21.5	20.31	No
	U-NII-2A	52	5260		21.5	20.32	No
		56	5280		21.5	20.38	No
		60	5300		21.5	20.40	No
		64	5320		21.5	20.43	No
	U-NII-2C	100	5500		21.5	20.45	No
		104	5520		21.5	20.43	No
		108	5540		21.5	20.30	No
		112	5560		21.5	20.15	No
		116	5580		21.5	20.21	No
		120	5600		21.5	20.10	No
		124	5620		21.5	20.12	No
		128	5640		21.5	20.25	No
		132	5660		21.5	20.36	No
		136	5680		21.5	20.35	No
		140	5700		21.5	20.51	No
	U-NII-3	149	5745		21.5	20.58	No
		153	5765		21.5	20.54	No
		157	5785		21.5	20.53	No
		161	5805		21.5	20.50	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	21.5	20.44	No
		40	5200		21.5	20.30	No
		44	5220		21.5	20.25	No
		48	5240		21.5	20.13	No
	U-NII-2A	52	5260		21.5	20.17	No
		56	5280		21.5	20.22	No
		60	5300		21.5	20.23	No
		64	5320		21.5	20.23	No
	U-NII-2C	100	5500		21.5	20.26	No
		104	5520		21.5	20.22	No
		108	5540		21.5	20.14	No
		112	5560		21.5	19.96	No
		116	5580		21.5	20.01	No
		120	5600		21.5	19.94	No
		124	5620		21.5	19.96	No
		128	5640		21.5	20.07	No
		132	5660		21.5	20.15	No
		136	5680		21.5	20.16	No
		140	5700		21.5	20.30	No
	U-NII-3	149	5745		21.5	20.37	No
		153	5765		21.5	20.35	No
		157	5785		21.5	20.36	No



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		161	5805		21.5	20.31	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	20.5	19.66	No
		46	5230		20.5	19.47	No
	U-NII-2A	54	5270		20.5	19.43	No
		62	5310		20.5	19.48	No
	U-NII-2C	102	5510		20.5	19.54	No
		110	5550		20.5	19.35	No
		118	5590		20.5	19.20	No
		126	5630		20.5	19.26	No
		134	5670		20.5	19.47	No
		151	5755		20.5	19.53	No
	U-NII-3	159	5795		20.5	19.56	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	22.0	21.25	No
		40	5200		22.0	21.26	Yes
		44	5220		22.0	21.11	No
		48	5240		22.0	21.06	No
	U-NII-2A	52	5260		22.0	21.07	No
		56	5280		22.0	21.12	No
		60	5300		22.0	21.26	Yes
		64	5320		22.0	21.24	Yes
	U-NII-2C	100	5500		22.0	21.19	No
		104	5520		22.0	21.14	No
		108	5540		22.0	21.03	No
		112	5560		22.0	20.87	No
		116	5580		22.0	21.21	Yes
		120	5600		22.0	20.82	No
		124	5620		22.0	20.87	No
		128	5640		22.0	20.96	No
		132	5660		22.0	21.03	No
		136	5680		22.0	21.02	No
		140	5700		22.0	21.20	Yes
	U-NII-3	149	5745		22.0	21.32	No
		153	5765		22.0	21.29	No
		157	5785		22.0	21.33	Yes
		161	5805		22.0	21.16	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	20.5	19.69	No
		46	5230		20.5	19.49	No
	U-NII-2A	54	5270		20.5	19.46	No
		62	5310		20.5	19.48	No
	U-NII-2C	102	5510		20.5	19.52	No
		110	5550		20.5	19.33	No
		118	5590		20.5	19.23	No
		126	5630		20.5	19.30	No
		134	5670		20.5	19.53	No
	U-NII-3	151	5755		20.5	19.57	No
		159	5795		20.5	19.53	No



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5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	19.5	18.49	No
	U-NII-2A	58	5290		19.5	18.50	No
	U-NII-2C	106	5530		19.5	18.36	No
		122	5610		19.5	18.14	No
	U-NII-3	155	5775		19.5	18.58	No

WiFi 5G MIMO 802.11ax(Receiver off)							
5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 20M	RU26	U-NII-1	36	5180	20.5	19.06	No
			40	5200	20.5	18.99	No
			44	5220	20.5	18.88	No
			48	5240	20.5	18.86	No
		U-NII-2A	52	5260	20.5	18.93	No
			56	5280	20.5	19.10	No
			60	5300	20.5	19.12	No
			64	5320	20.5	19.14	No
		U-NII-2C	100	5500	20.5	19.35	No
			104	5520	20.5	19.27	No
			108	5540	20.5	19.19	No
			112	5560	20.5	19.01	No
			116	5580	20.5	19.06	No
			120	5600	20.5	18.99	No
			124	5620	20.5	19.04	No
			128	5640	20.5	19.18	No
			132	5660	20.5	19.27	No
			136	5680	20.5	19.29	No
			140	5700	20.5	19.42	No
		U-NII-3	149	5745	20.5	19.46	No
			153	5765	20.5	19.44	No
			157	5785	20.5	19.45	No
			161	5805	20.5	19.35	No
802.11ax 20M	RU52	U-NII-1	36	5180	20.5	19.11	No
			40	5200	20.5	19.04	No
			44	5220	20.5	18.94	No
			48	5240	20.5	18.93	No
		U-NII-2A	52	5260	20.5	18.99	No
			56	5280	20.5	19.15	No
			60	5300	20.5	19.18	No
			64	5320	20.5	19.22	No
		U-NII-2C	100	5500	20.5	19.42	No
			104	5520	20.5	19.36	No
			108	5540	20.5	19.24	No
			112	5560	20.5	19.10	No
			116	5580	20.5	19.16	No
			120	5600	20.5	19.08	No
			124	5620	20.5	19.12	No
			128	5640	20.5	19.26	No
			132	5660	20.5	19.36	No



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		U-NII-3	136	5680	20.5	19.40	No
			140	5700	20.5	19.55	No
			149	5745	20.5	19.56	No
			153	5765	20.5	19.53	No
			157	5785	20.5	19.52	No
			161	5805	20.5	19.43	No
802.11ax 20M	RU206	U-NII-1	36	5180	20.5	19.29	No
			40	5200	20.5	19.20	No
			44	5220	20.5	19.10	No
			48	5240	20.5	19.09	No
		U-NII-2A	52	5260	20.5	19.15	No
			56	5280	20.5	19.30	No
			60	5300	20.5	19.34	No
			64	5320	20.5	19.38	No
		U-NII-2C	100	5500	20.5	19.52	No
			104	5520	20.5	19.47	No
			108	5540	20.5	19.39	No
			112	5560	20.5	19.24	No
			116	5580	20.5	19.31	No
			120	5600	20.5	19.24	No
			124	5620	20.5	19.28	No
			128	5640	20.5	19.43	No
			132	5660	20.5	19.54	No
			136	5680	20.5	19.56	No
			140	5700	20.5	19.69	No
		U-NII-3	149	5745	20.5	19.72	No
			153	5765	20.5	19.72	No
			157	5785	20.5	19.74	No
			161	5805	20.5	19.63	No
802.11ax 20M	RU242	U-NII-1	36	5180	20.5	19.53	No
			40	5200	20.5	19.41	No
			44	5220	20.5	19.31	No
			48	5240	20.5	19.21	No
		U-NII-2A	52	5260	20.5	19.25	No
			56	5280	20.5	19.34	No
			60	5300	20.5	19.31	No
			64	5320	20.5	19.35	No
		U-NII-2C	100	5500	20.5	19.37	No
			104	5520	20.5	19.37	No
			108	5540	20.5	19.24	No
			112	5560	20.5	19.11	No
			116	5580	20.5	19.15	No
			120	5600	20.5	19.04	No
			124	5620	20.5	19.07	No
			128	5640	20.5	19.20	No
			132	5660	20.5	19.27	No
			136	5680	20.5	19.29	No
			140	5700	20.5	19.43	No
		U-NII-3	149	5745	20.5	19.47	No
			153	5765	20.5	19.46	No
			157	5785	20.5	19.51	No
			161	5805	20.5	19.35	No



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5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 40M	RU242	U-NII-1	38	5190	18.0	16.16	No
			46	5230	18.0	15.93	No
		U-NII-2A	54	5270	18.0	15.95	No
			62	5310	18.0	16.25	No
		U-NII-2C	102	5510	18.0	16.48	No
			110	5550	18.0	16.31	No
			118	5590	18.0	16.25	No
			126	5630	18.0	16.29	No
			134	5670	18.0	16.65	No
		U-NII-3	151	5755	18.0	16.78	No
			159	5795	18.0	16.73	No
802.11ax 40M	RU484	U-NII-1	38	5190	18.0	16.16	No
			46	5230	18.0	15.99	No
		U-NII-2A	54	5270	18.0	16.09	No
			62	5310	18.0	16.32	No
		U-NII-2C	102	5510	18.0	16.53	No
			110	5550	18.0	16.36	No
			118	5590	18.0	16.31	No
			126	5630	18.0	16.39	No
			134	5670	18.0	16.73	No
		U-NII-3	151	5755	18.0	16.83	No
			159	5795	18.0	16.74	No
5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 80M	RU484	U-NII-1	42	5210	19.5	18.46	No
		U-NII-2A	58	5290	19.5	18.32	No
		U-NII-2C	106	5530	19.5	18.51	No
			122	5610	19.5	18.15	No
		U-NII-3	155	5775	19.5	18.81	No
802.11ax 80M	RU996	U-NII-1	42	5210	19.5	18.30	No
		U-NII-2A	58	5290	19.5	18.31	No
		U-NII-2C	106	5530	19.5	18.30	No
			122	5610	19.5	18.08	No
		U-NII-3	155	5775	19.5	18.51	No



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WiFi 5G MIMO(Receiver on)							
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	18.0	16.95	No
		40	5200		18.0	16.91	No
		44	5220		18.0	16.94	No
		48	5240		18.0	16.98	No
	U-NII-2A	52	5260		18.0	17.03	No
		56	5280		18.0	17.02	No
		60	5300		18.0	16.95	No
		64	5320		18.0	17.00	No
	U-NII-2C	100	5500		18.0	16.97	No
		104	5520		18.0	16.96	No
		108	5540		18.0	16.97	No
		112	5560		18.0	16.91	No
		116	5580		18.0	16.97	No
		120	5600		18.0	16.92	No
		124	5620		18.0	17.00	No
		128	5640		18.0	16.94	No
		132	5660		18.0	16.94	No
		136	5680		18.0	16.97	No
		140	5700		18.0	17.00	No
	U-NII-3	149	5745		18.0	17.00	No
		153	5765		18.0	17.01	No
		157	5785		18.0	17.02	No
		161	5805		18.0	16.96	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	18.0	17.04	No
		40	5200		18.0	16.99	No
		44	5220		18.0	17.04	No
		48	5240		18.0	17.05	No
	U-NII-2A	52	5260		18.0	17.07	No
		56	5280		18.0	17.07	No
		60	5300		18.0	17.09	No
		64	5320		18.0	17.09	No
	U-NII-2C	100	5500		18.0	16.94	No
		104	5520		18.0	16.90	No
		108	5540		18.0	16.93	No
		112	5560		18.0	16.86	No
		116	5580		18.0	16.89	No
		120	5600		18.0	16.89	No
		124	5620		18.0	16.90	No
		128	5640		18.0	16.87	No
		132	5660		18.0	16.96	No
		136	5680		18.0	16.88	No
		140	5700		18.0	16.99	No
	U-NII-3	149	5745		18.0	16.96	No
		153	5765		18.0	16.90	No
		157	5785		18.0	16.92	No



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		161	5805		18.0	16.92	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	18.0	16.56	No
		46	5230		18.0	16.70	No
	U-NII-2A	54	5270		18.0	16.50	No
		62	5310		18.0	16.67	No
	U-NII-2C	102	5510		18.0	16.56	No
		110	5550		18.0	16.98	No
		118	5590		18.0	16.78	No
		126	5630		18.0	16.89	No
		134	5670		18.0	16.92	No
	U-NII-3	151	5755		18.0	16.70	No
		159	5795		18.0	16.56	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	18.5	17.24	No
		40	5200		18.5	17.35	No
		44	5220		18.5	17.45	No
		48	5240		18.5	17.23	No
	U-NII-2A	52	5260		18.5	17.36	Yes
		56	5280		18.5	17.30	No
		60	5300		18.5	17.37	Yes
		64	5320		18.5	17.35	No
	U-NII-2C	100	5500		18.5	17.48	Yes
		104	5520		18.5	17.44	No
		108	5540		18.5	17.40	No
		112	5560		18.5	17.47	No
		116	5580		18.5	17.49	Yes
		120	5600		18.5	17.44	No
		124	5620		18.5	17.34	No
		128	5640		18.5	17.43	No
		132	5660		18.5	17.42	No
		136	5680		18.5	17.39	No
	U-NII-3	140	5700		18.5	17.47	No
		149	5745		18.5	17.48	Yes
		153	5765		18.5	17.45	No
		157	5785		18.5	17.51	Yes
		161	5805		18.5	17.31	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	17.0	15.72	No
		46	5230		17.0	15.64	No
	U-NII-2A	54	5270		17.0	15.75	No
		62	5310		17.0	15.77	No
	U-NII-2C	102	5510		17.0	15.72	No
		110	5550		17.0	15.78	No
		118	5590		17.0	15.71	No
		126	5630		17.0	15.70	No
		134	5670		17.0	15.74	No
	U-NII-3	151	5755		17.0	15.62	No
		159	5795		17.0	15.60	No



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	17.0	15.76	No
	U-NII-2A	58	5290		17.0	15.64	No
	U-NII-2C	106	5530		17.0	15.63	No
		122	5610		17.0	15.63	No
	U-NII-3	155	5775		17.0	15.60	No

WiFi 5G MIMO 802.11ax(Receiver on)							
5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 20M	RU26	U-NII-1	36	5180	18.0	16.56	No
			40	5200	18.0	16.57	No
			44	5220	18.0	16.58	No
			48	5240	18.0	16.87	No
		U-NII-2A	52	5260	18.0	16.76	No
			56	5280	18.0	16.53	No
			60	5300	18.0	16.72	No
			64	5320	18.0	16.81	No
		U-NII-2C	100	5500	18.0	16.79	No
			104	5520	18.0	16.92	No
			108	5540	18.0	16.67	No
			112	5560	18.0	16.59	No
			116	5580	18.0	16.77	No
			120	5600	18.0	16.93	No
			124	5620	18.0	16.87	No
			128	5640	18.0	16.83	No
			132	5660	18.0	16.72	No
			136	5680	18.0	16.78	No
		U-NII-3	140	5700	18.0	16.93	No
			149	5745	18.0	16.79	No
			153	5765	18.0	16.88	No
			157	5785	18.0	16.94	No
			161	5805	18.0	16.79	No
802.11ax 20M	RU52	U-NII-1	36	5180	18.0	16.55	No
			40	5200	18.0	16.59	No
			44	5220	18.0	16.83	No
			48	5240	18.0	16.86	No
		U-NII-2A	52	5260	18.0	16.79	No
			56	5280	18.0	16.94	No
			60	5300	18.0	16.92	No
			64	5320	18.0	16.49	No
		U-NII-2C	100	5500	18.0	16.79	No
			104	5520	18.0	16.04	No
			108	5540	18.0	16.34	No
			112	5560	18.0	16.59	No
			116	5580	18.0	16.79	No
			120	5600	18.0	16.82	No
			124	5620	18.0	16.89	No
			128	5640	18.0	16.45	No
			132	5660	18.0	16.59	No



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		U-NII-3	136	5680	18.0	16.28	No
			140	5700	18.0	16.43	No
			149	5745	18.0	16.89	No
			153	5765	18.0	16.77	No
			157	5785	18.0	16.75	No
			161	5805	18.0	16.89	No
802.11ax 20M	RU206	U-NII-1	36	5180	18.0	16.76	No
			40	5200	18.0	16.45	No
			44	5220	18.0	16.79	No
			48	5240	18.0	16.82	No
		U-NII-2A	52	5260	18.0	16.34	No
			56	5280	18.0	16.52	No
			60	5300	18.0	16.89	No
			64	5320	18.0	16.43	No
		U-NII-2C	100	5500	18.0	16.58	No
			104	5520	18.0	16.98	No
			108	5540	18.0	16.78	No
			112	5560	18.0	16.77	No
			116	5580	18.0	16.59	No
			120	5600	18.0	16.49	No
			124	5620	18.0	16.59	No
			128	5640	18.0	16.57	No
			132	5660	18.0	16.54	No
			136	5680	18.0	16.72	No
			140	5700	18.0	16.88	No
		U-NII-3	149	5745	18.0	16.94	No
			153	5765	18.0	16.88	No
			157	5785	18.0	16.59	No
			161	5805	18.0	16.69	No
802.11ax 20M	RU242	U-NII-1	36	5180	18.0	17.01	No
			40	5200	18.0	16.43	No
			44	5220	18.0	16.77	No
			48	5240	18.0	16.89	No
		U-NII-2A	52	5260	18.0	16.73	No
			56	5280	18.0	16.50	No
			60	5300	18.0	16.92	No
			64	5320	18.0	16.78	No
		U-NII-2C	100	5500	18.0	16.55	No
			104	5520	18.0	16.32	No
			108	5540	18.0	16.09	No
			112	5560	18.0	16.34	No
			116	5580	18.0	16.68	No
			120	5600	18.0	16.82	No
			124	5620	18.0	16.42	No
			128	5640	18.0	16.74	No
			132	5660	18.0	16.29	No
			136	5680	18.0	16.18	No
			140	5700	18.0	16.77	No
		U-NII-3	149	5745	18.0	16.82	No
			153	5765	18.0	16.89	No
			157	5785	18.0	16.38	No
			161	5805	18.0	16.23	No



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5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 40M	RU242	U-NII-1	38	5190	18.0	16.16	No
			46	5230	18.0	15.93	No
		U-NII-2A	54	5270	18.0	15.95	No
			62	5310	18.0	16.25	No
		U-NII-2C	102	5510	18.0	16.48	No
			110	5550	18.0	16.31	No
			118	5590	18.0	16.25	No
			126	5630	18.0	16.29	No
			134	5670	18.0	16.65	No
		U-NII-3	151	5755	18.0	16.78	No
			159	5795	18.0	16.73	No
802.11ax 40M	RU484	U-NII-1	38	5190	18.0	16.16	No
			46	5230	18.0	15.99	No
		U-NII-2A	54	5270	18.0	16.09	No
			62	5310	18.0	16.32	No
		U-NII-2C	102	5510	18.0	16.53	No
			110	5550	18.0	16.36	No
			118	5590	18.0	16.31	No
			126	5630	18.0	16.39	No
			134	5670	18.0	16.73	No
		U-NII-3	151	5755	18.0	16.83	No
			159	5795	18.0	16.74	No
5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 80M	RU484	U-NII-1	42	5210	18.0	16.94	No
		U-NII-2A	58	5290	18.0	16.78	No
		U-NII-2C	106	5530	18.0	16.57	No
			122	5610	18.0	16.98	No
		U-NII-3	155	5775	18.0	16.78	No
802.11ax 80M	RU996	U-NII-1	42	5210	18.0	16.94	No
		U-NII-2A	58	5290	18.0	16.99	No
		U-NII-2C	106	5530	18.0	16.89	No
			122	5610	18.0	16.78	No
		U-NII-3	155	5775	18.0	16.86	No



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WWAN + WiFi 5G MIMO(Receiver on)							
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	14.0	12.86	No
		40	5200		14.0	12.93	No
		44	5220		14.0	12.87	No
		48	5240		14.0	12.84	No
	U-NII-2A	52	5260		14.0	12.92	No
		56	5280		14.0	12.94	No
		60	5300		14.0	12.83	No
		64	5320		14.0	12.95	No
	U-NII-2C	100	5500		14.0	12.86	No
		104	5520		14.0	12.88	No
		108	5540		14.0	12.86	No
		112	5560		14.0	12.82	No
		116	5580		14.0	12.99	No
		120	5600		14.0	12.92	No
		124	5620		14.0	12.92	No
		128	5640		14.0	12.87	No
		132	5660		14.0	12.90	No
		136	5680		14.0	12.82	No
		140	5700		14.0	13.05	No
	U-NII-3	149	5745		14.0	12.96	No
		153	5765		14.0	13.01	No
		157	5785		14.0	12.97	No
		161	5805		14.0	12.85	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	14.0	12.94	No
		40	5200		14.0	12.97	No
		44	5220		14.0	13.02	No
		48	5240		14.0	13.09	No
	U-NII-2A	52	5260		14.0	12.96	No
		56	5280		14.0	13.03	No
		60	5300		14.0	13.11	No
		64	5320		14.0	12.97	No
	U-NII-2C	100	5500		14.0	12.96	No
		104	5520		14.0	12.94	No
		108	5540		14.0	12.88	No
		112	5560		14.0	12.90	No
		116	5580		14.0	12.90	No
		120	5600		14.0	12.91	No
		124	5620		14.0	12.94	No
		128	5640		14.0	12.90	No
		132	5660		14.0	12.96	No
		136	5680		14.0	12.90	No
		140	5700		14.0	12.99	No
	U-NII-3	149	5745		14.0	13.00	No
		153	5765		14.0	12.90	No
		157	5785		14.0	12.81	No



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5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	14.0	12.87	No
		46	5230		14.0	12.78	No
	U-NII-2A	54	5270		14.0	12.69	No
		62	5310		14.0	12.90	No
	U-NII-2C	102	5510		14.0	12.78	No
		110	5550		14.0	12.68	No
		118	5590		14.0	12.77	No
		126	5630		14.0	12.91	No
		134	5670		14.0	12.82	No
	U-NII-3	151	5755		14.0	12.79	No
		159	5795		14.0	12.67	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	14.5	13.27	No
		40	5200		14.5	13.39	No
		44	5220		14.5	13.43	No
		48	5240		14.5	13.27	No
	U-NII-2A	52	5260		14.5	13.36	No
		56	5280		14.5	13.16	No
		60	5300		14.5	13.42	Yes
		64	5320		14.5	13.38	No
	U-NII-2C	100	5500		14.5	13.45	No
		104	5520		14.5	13.49	No
		108	5540		14.5	13.38	No
		112	5560		14.5	13.42	No
		116	5580		14.5	13.53	Yes
		120	5600		14.5	13.38	No
		124	5620		14.5	13.39	No
		128	5640		14.5	13.41	No
		132	5660		14.5	13.39	No
		136	5680		14.5	13.42	No
		140	5700		14.5	13.35	No
	U-NII-3	149	5745		14.5	13.45	No
		153	5765		14.5	13.39	No
		157	5785		14.5	13.59	Yes
		161	5805		14.5	13.34	No
5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	14.0	12.76	No
		46	5230		14.0	12.85	No
	U-NII-2A	54	5270		14.0	12.99	No
		62	5310		14.0	12.78	No
	U-NII-2C	102	5510		14.0	12.67	No
		110	5550		14.0	12.92	No
		118	5590		14.0	12.75	No
		126	5630		14.0	12.59	No
		134	5670		14.0	12.77	No
	U-NII-3	151	5755		14.0	12.69	No
		159	5795		14.0	12.84	No



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5GHz	mode	Channel	Frequency (MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	14.0	12.97	No
	U-NII-2A	58	5290		14.0	12.77	No
	U-NII-2C	106	5530		14.0	12.81	No
		122	5610		14.0	12.73	No
	U-NII-3	155	5775		14.0	12.79	No

WWAN + WiFi 5G MIMO 802.11ax(Receiver on)							
5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 20M	RU26	U-NII-1	36	5180	14.0	12.67	No
			40	5200	14.0	12.89	No
			44	5220	14.0	12.98	No
			48	5240	14.0	12.73	No
		U-NII-2A	52	5260	14.0	12.85	No
			56	5280	14.0	12.74	No
			60	5300	14.0	12.49	No
			64	5320	14.0	12.99	No
		U-NII-2C	100	5500	14.0	12.67	No
			104	5520	14.0	12.34	No
			108	5540	14.0	12.45	No
			112	5560	14.0	12.11	No
			116	5580	14.0	12.39	No
			120	5600	14.0	12.35	No
			124	5620	14.0	12.89	No
			128	5640	14.0	12.77	No
			132	5660	14.0	12.60	No
			136	5680	14.0	12.78	No
			140	5700	14.0	12.59	No
		U-NII-3	149	5745	14.0	12.98	No
			153	5765	14.0	12.86	No
			157	5785	14.0	12.84	No
			161	5805	14.0	12.91	No
802.11ax 20M	RU52	U-NII-1	36	5180	14.0	12.59	No
			40	5200	14.0	12.03	No
			44	5220	14.0	12.88	No
			48	5240	14.0	12.08	No
		U-NII-2A	52	5260	14.0	12.87	No
			56	5280	14.0	12.45	No
			60	5300	14.0	12.76	No
			64	5320	14.0	12.69	No
		U-NII-2C	100	5500	14.0	12.77	No
			104	5520	14.0	12.67	No
			108	5540	14.0	12.32	No
			112	5560	14.0	12.34	No
			116	5580	14.0	12.23	No
			120	5600	14.0	12.34	No
			124	5620	14.0	12.11	No
			128	5640	14.0	12.89	No
			132	5660	14.0	12.23	No



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		U-NII-3	136	5680	14.0	12.34	No
			140	5700	14.0	12.76	No
			149	5745	14.0	12.29	No
			153	5765	14.0	12.96	No
			157	5785	14.0	12.87	No
			161	5805	14.0	12.32	No
802.11ax 20M	RU206	U-NII-1	36	5180	14.0	12.89	No
			40	5200	14.0	12.43	No
			44	5220	14.0	12.98	No
			48	5240	14.0	12.87	No
		U-NII-2A	52	5260	14.0	12.59	No
			56	5280	14.0	12.59	No
			60	5300	14.0	12.65	No
			64	5320	14.0	12.64	No
		U-NII-2C	100	5500	14.0	12.49	No
			104	5520	14.0	12.99	No
			108	5540	14.0	12.78	No
			112	5560	14.0	12.59	No
			116	5580	14.0	12.61	No
			120	5600	14.0	12.89	No
			124	5620	14.0	12.49	No
			128	5640	14.0	12.68	No
			132	5660	14.0	12.64	No
			136	5680	14.0	12.58	No
			140	5700	14.0	12.73	No
		U-NII-3	149	5745	14.0	12.86	No
			153	5765	14.0	12.77	No
			157	5785	14.0	12.52	No
			161	5805	14.0	12.79	No
802.11ax 20M	RU242	U-NII-1	36	5180	14.0	12.96	No
			40	5200	14.0	12.98	No
			44	5220	14.0	12.87	No
			48	5240	14.0	12.77	No
		U-NII-2A	52	5260	14.0	12.69	No
			56	5280	14.0	12.99	No
			60	5300	14.0	12.67	No
			64	5320	14.0	12.68	No
		U-NII-2C	100	5500	14.0	12.97	No
			104	5520	14.0	12.98	No
			108	5540	14.0	12.89	No
			112	5560	14.0	12.67	No
			116	5580	14.0	12.76	No
			120	5600	14.0	12.56	No
			124	5620	14.0	12.44	No
			128	5640	14.0	12.89	No
			132	5660	14.0	12.65	No
			136	5680	14.0	12.66	No
			140	5700	14.0	12.98	No
		U-NII-3	149	5745	14.0	12.67	No
			153	5765	14.0	12.88	No
			157	5785	14.0	12.69	No
			161	5805	14.0	12.43	No



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5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 40M	RU242	U-NII-1	38	5190	14.0	12.98	No
			46	5230	14.0	12.98	No
		U-NII-2A	54	5270	14.0	2.56	No
			62	5310	14.0	13.02	No
		U-NII-2C	102	5510	14.0	12.89	No
			110	5550	14.0	12.78	No
			118	5590	14.0	12.98	No
			126	5630	14.0	13.02	No
			134	5670	14.0	12.78	No
		U-NII-3	151	5755	14.0	13.02	No
			159	5795	14.0	13.02	No
802.11ax 40M	RU484	U-NII-1	38	5190	14.0	13.01	No
			46	5230	14.0	12.96	No
		U-NII-2A	54	5270	14.0	12.99	No
			62	5310	14.0	13.02	No
		U-NII-2C	102	5510	14.0	12.89	No
			110	5550	14.0	13.02	No
			118	5590	14.0	12.89	No
			126	5630	14.0	13.00	No
			134	5670	14.0	12.98	No
		U-NII-3	151	5755	14.0	13.02	No
			159	5795	14.0	12.89	No
5GHz	Tones	mode	Channel	Frequency (MHz)	Tune up	Average Power (dBm)	SAR Test
802.11ax 80M	RU484	U-NII-1	42	5210	14.0	12.98	No
		U-NII-2A	58	5290	14.0	12.93	No
		U-NII-2C	106	5530	14.0	12.78	No
			122	5610	14.0	12.78	No
		U-NII-3	155	5775	14.0	12.69	No
802.11ax 80M	RU996	U-NII-1	42	5210	14.0	12.58	No
		U-NII-2A	58	5290	14.0	12.65	No
		U-NII-2C	106	5530	14.0	12.45	No
			122	5610	14.0	12.59	No
		U-NII-3	155	5775	14.0	12.67	No

Table 25: Conducted Power of WiFi

Note:

The SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.



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BT			Ant5		Ant6	
Modulation	Channel	Frequency (MHz)	Tune up (dBm)	Average Conducted Power(dBm)	Tune up (dBm)	Average Conducted Power(dBm)
DH5 (GFSK)	0	2402	14.5	13.68	14.5	14.30
	39	2441	14.5	13.83	14.5	14.35
	78	2480	14.5	13.63	14.5	14.15
2DH5 (π/4DQPSK)	0	2402	13.0	11.39	13.0	12.12
	39	2441	13.0	11.42	13.0	12.16
	78	2480	13.0	10.94	13.0	11.81
3DH5 (8DPSK)	0	2402	13.0	11.37	13.0	12.02
	39	2441	13.0	11.41	13.0	12.08
	78	2480	13.0	10.94	13.0	11.85
BLE 1M			Ant5		Ant6	
Modulation	Channel	Frequency (MHz)	Tune up (dBm)	Average Conducted Power(dBm)	Tune up (dBm)	Average Conducted Power(dBm)
GFSK	0	2402	4.0	3.16	4.0	3.57
	19	2440	4.0	3.19	4.0	3.61
	39	2480	4.0	2.81	4.0	3.04
BLE 2M			Ant5		Ant6	
Modulation	Channel	Frequency (MHz)	Tune up (dBm)	Average Conducted Power(dBm)	Tune up (dBm)	Average Conducted Power(dBm)
GFSK	0	2402	1.0	-0.41	1.0	0.16
	19	2440	1.0	0.28	1.0	0.61
	39	2480	1.0	0.27	1.0	0.59

Table 26: Conducted Power of BT

Note:

- 1)The conducted power of BT is measured with RMS detector.
- 2)The bolded mode was selected for SAR testing.



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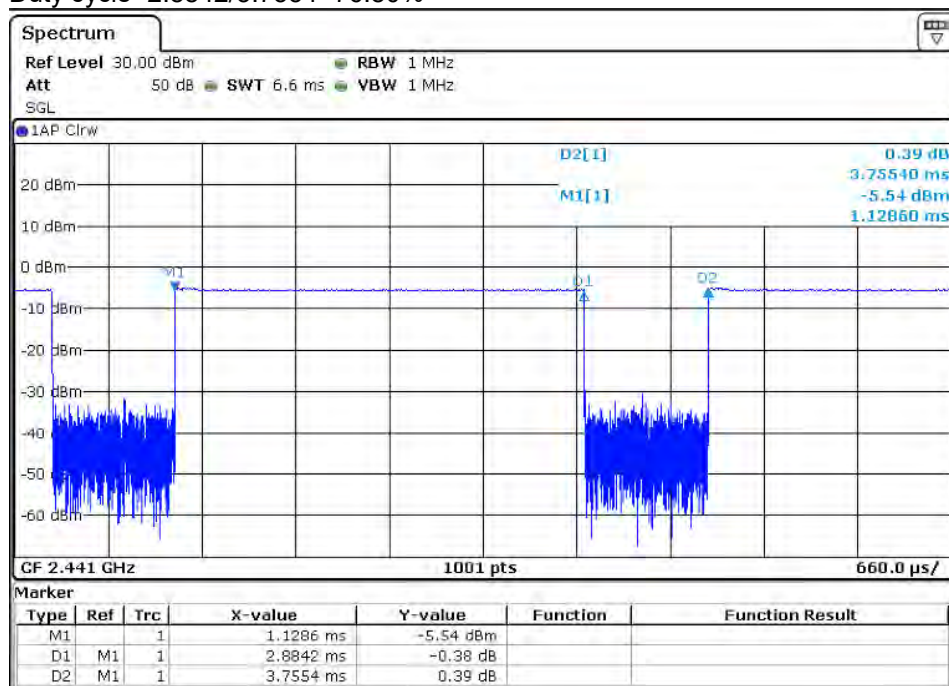
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Shenzhen Branch Laboratory

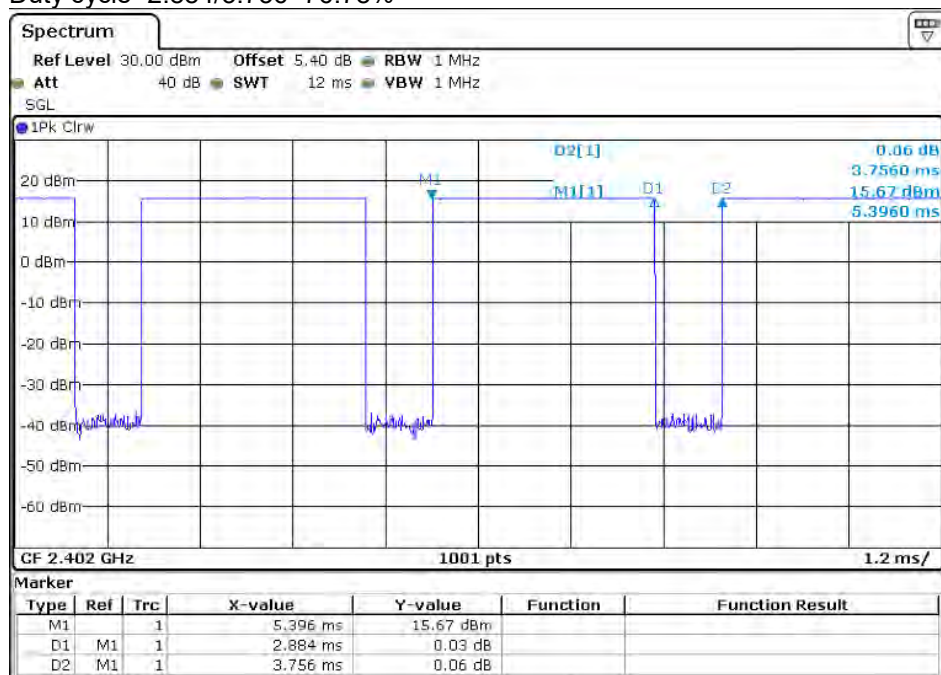
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Bluetooth Ant5 DH5(GFSK):
Duty cycle=2.8842/3.7554=76.80%



Bluetooth Ant6 DH5(GFSK):
Duty cycle=2.884/3.756=76.78%



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency (GHz)	Position	Average Power		Test Separation (mm)	Calculate Value	Exclusion Threshold	Exclusion (Y/N)
			dBm	mW				
Wi-Fi 2.4G MIMO	2.472	Head	19.0	79.43	5	24.98	3	N
		Body-worn	24.0	251.19	15	26.33	3	N
		Hotspot	24.0	251.19	10	39.49	3	N
Wi-Fi 5G MIMO	5.85	Head	18.5	70.79	5	34.25	3	N
		Body-worn	22.0	158.49	15	25.56	3	N
		Hotspot	22.0	158.49	10	38.33	3	N
Bluetooth Ant5	2.48	Head	14.5	28.18	5	8.88	3	N
		Body-worn	14.5	28.18	15	2.96	3	Y
		Hotspot	14.5	28.18	10	4.44	3	N
Bluetooth Ant6	2.48	Head	14.5	28.18	5	8.88	3	N
		Body-worn	14.5	28.18	15	2.96	3	Y
		Hotspot	14.5	28.18	10	4.44	3	N

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 and ≤ 7.5 for 10-g extremity 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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 Measurement of SAR Data

8.3.1 SAR Result of GSM850

Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	190/836.6	1:8.3	0.138	0.09	32.30	33.50	1.318	0.182	22.0
Left tilted	GSM	190/836.6	1:8.3	0.085	0.06	32.30	33.50	1.318	0.112	22.0
Right cheek	GSM	190/836.6	1:8.3	0.199	0.14	32.30	33.50	1.318	0.262	22.0
Right tilted	GSM	190/836.6	1:8.3	0.087	0.06	32.30	33.50	1.318	0.115	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.132	0.01	32.30	33.50	1.318	0.174	22.0
Back side	GSM	190/836.6	1:8.3	0.180	-0.01	32.30	33.50	1.318	0.237	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.217	-0.09	26.01	27.50	1.409	0.306	22.0
Back side	GPRS 4TS	190/836.6	1:2.075	0.394	0.08	26.01	27.50	1.409	0.555	22.0
Right side	GPRS 4TS	190/836.6	1:2.075	0.177	-0.15	26.01	27.50	1.409	0.249	22.0
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.252	0.07	26.01	27.50	1.409	0.355	22.0
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	190/836.6	1:8.3	0.487	0.01	32.56	33.50	1.242	0.605	22.0
Left tilted	GSM	190/836.6	1:8.3	0.075	0.05	32.56	33.50	1.242	0.093	22.0
Right cheek	GSM	190/836.6	1:8.3	0.437	0.02	32.56	33.50	1.242	0.543	22.0
Right tilted	GSM	190/836.6	1:8.3	0.088	0.02	32.56	33.50	1.242	0.109	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.118	-0.17	32.56	33.50	1.242	0.147	22.0
Back side	GSM	190/836.6	1:8.3	0.144	0.01	32.56	33.50	1.242	0.179	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.186	0.00	25.98	27.50	1.419	0.264	22.0
Back side	GPRS 4TS	190/836.6	1:2.075	0.194	-0.13	25.98	27.50	1.419	0.275	22.0
Left side	GPRS 4TS	190/836.6	1:2.075	0.430	-0.02	25.98	27.50	1.419	0.610	22.0

Table 27: SAR of GSM850 for Head and Body

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.





8.3.2 SAR Result of GSM1900

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	661/1880	1:8.3	0.050	-0.02	29.74	30.50	1.191	0.059	22.0
Left tilted	GSM	661/1880	1:8.3	0.055	0.06	29.74	30.50	1.191	0.066	22.0
Right cheek	GSM	661/1880	1:8.3	0.057	0.04	29.74	30.50	1.191	0.068	22.0
Right tilted	GSM	661/1880	1:8.3	0.062	0.09	29.74	30.50	1.191	0.074	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.110	-0.17	29.74	30.50	1.191	0.131	22.0
Back side	GSM	661/1880	1:8.3	0.155	0.06	29.74	30.50	1.191	0.185	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.187	0.19	23.31	24.50	1.315	0.246	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.199	0.13	23.31	24.50	1.315	0.262	22.0
Left side	GPRS 4TS	661/1880	1:2.075	0.107	0.12	23.31	24.50	1.315	0.141	22.0
Bottom side	GPRS 4TS	661/1880	1:2.075	0.387	-0.03	23.31	24.50	1.315	0.509	22.0
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GSM	661/1880	1:8.3	0.225	0.03	27.38	28.50	1.294	0.291	22.0
Left tilted	GSM	661/1880	1:8.3	0.330	-0.03	27.38	28.50	1.294	0.427	22.0
Right cheek	GSM	661/1880	1:8.3	0.553	-0.02	27.38	28.50	1.294	0.716	22.0
Right tilted	GSM	661/1880	1:8.3	0.422	0.03	27.38	28.50	1.294	0.546	22.0
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.046	0.14	29.27	30.50	1.327	0.061	22.0
Back side	GSM	661/1880	1:8.3	0.147	0.02	29.27	30.50	1.327	0.195	22.0
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.079	-0.17	23.41	24.50	1.285	0.102	22.0
Back side	GPRS 4TS	661/1880	1:2.075	0.069	-0.15	23.41	24.50	1.285	0.089	22.0
Left side	GPRS 4TS	661/1880	1:2.075	0.072	0.04	23.41	24.50	1.285	0.093	22.0
Top side	GPRS 4TS	661/1880	1:2.075	0.213	-0.14	23.41	24.50	1.285	0.274	22.0

Table 28: SAR of GSM1900 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.3 SAR Result of WCDMA Band II

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.135	0.05	23.83	25.00	1.309	0.177	22.0
Left tilted	RMC	9400/1880	1:1	0.115	0.06	23.83	25.00	1.309	0.151	22.0
Right cheek	RMC	9400/1880	1:1	0.151	0.05	23.83	25.00	1.309	0.198	22.0
Right tilted	RMC	9400/1880	1:1	0.132	0.07	23.83	25.00	1.309	0.173	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.291	0.11	23.83	25.00	1.309	0.381	22.0
Back side	RMC	9400/1880	1:1	0.389	-0.07	23.83	25.00	1.309	0.509	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.370	0.19	21.76	23.00	1.330	0.492	22.0
Back side	RMC	9400/1880	1:1	0.365	0.17	21.76	23.00	1.330	0.486	22.0
Left side	RMC	9400/1880	1:1	0.199	0.13	21.76	23.00	1.330	0.265	22.0
Bottom side	RMC	9400/1880	1:1	0.693	-0.03	21.76	23.00	1.330	0.922	22.0
Bottom side	RMC	9262/1852.4	1:1	0.650	0.01	21.76	23.00	1.330	0.865	22.0
Bottom side	RMC	9538/1907.6	1:1	0.653	0.12	21.76	23.00	1.330	0.869	22.0
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm) sensor on										
Bottom side	RMC	9400/1880	1:1	1.880	0.08	22.32	23.50	1.312	2.467	22.0
Bottom side	RMC	9262/1852.4	1:1	1.850	0.05	22.29	23.50	1.321	2.444	22.0
Bottom side	RMC	9538/1907.6	1:1	1.880	0.02	22.35	23.50	1.303	2.450	22.0
Product specific 10g SAR Test data (sensor off)										
Bottom side-15mm	RMC	9400/1880	1:1	0.226	0.04	23.83	25.00	1.309	0.296	22.0



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Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.188	0.01	17.83	19.00	1.309	0.246	22.0
Left tilted	RMC	9400/1880	1:1	0.275	0.10	17.83	19.00	1.309	0.360	22.0
Right cheek	RMC	9400/1880	1:1	0.521	-0.04	17.83	19.00	1.309	0.682	22.0
Right tilted	RMC	9400/1880	1:1	0.399	0.03	17.83	19.00	1.309	0.522	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.234	0.08	23.62	25.00	1.374	0.322	22.0
Back side	RMC	9400/1880	1:1	0.186	0.04	23.62	25.00	1.374	0.256	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.086	0.01	17.83	19.00	1.309	0.113	22.0
Back side	RMC	9400/1880	1:1	0.082	0.08	17.83	19.00	1.309	0.107	22.0
Left side	RMC	9400/1880	1:1	0.091	-0.16	17.83	19.00	1.309	0.119	22.0
Top side	RMC	9400/1880	1:1	0.225	0.04	17.83	19.00	1.309	0.295	22.0

Table 29: SAR of WCDMA Band II for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.4 SAR Result of WCDMA Band IV

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.100	0.09	23.68	25.00	1.355	0.136	22.0
Left tilted	RMC	1412/1732.4	1:1	0.067	0.03	23.68	25.00	1.355	0.091	22.0
Right cheek	RMC	1412/1732.4	1:1	0.184	0.00	23.68	25.00	1.355	0.249	22.0
Right tilted	RMC	1412/1732.4	1:1	0.065	0.03	23.68	25.00	1.355	0.088	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.247	0.19	23.68	25.00	1.355	0.335	22.0
Back side	RMC	1412/1732.4	1:1	0.253	-0.11	23.68	25.00	1.355	0.343	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.446	-0.12	22.65	24.00	1.365	0.609	22.0
Back side	RMC	1412/1732.4	1:1	0.413	-0.03	22.65	24.00	1.365	0.564	22.0
Left side	RMC	1412/1732.4	1:1	0.353	0.05	22.65	24.00	1.365	0.482	22.0
Bottom side	RMC	1412/1732.4	1:1	0.634	0.16	22.65	24.00	1.365	0.865	22.0
Bottom side	RMC	1312/1712.4	1:1	0.594	0.04	22.54	24.00	1.400	0.831	22.0
Bottom side	RMC	1513/1752.6	1:1	0.653	0.04	22.51	24.00	1.409	0.920	22.0
Ant 4 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	1412/1732.4	1:1	0.139	0.08	16.74	18.00	1.337	0.186	22.0
Left tilted	RMC	1412/1732.4	1:1	0.226	0.01	16.74	18.00	1.337	0.302	22.0
Right cheek	RMC	1412/1732.4	1:1	0.499	0.05	16.74	18.00	1.337	0.667	22.0
Right tilted	RMC	1412/1732.4	1:1	0.371	-0.07	16.74	18.00	1.337	0.496	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.305	0.13	23.81	25.00	1.315	0.401	22.0
Back side	RMC	1412/1732.4	1:1	0.337	0.01	23.81	25.00	1.315	0.443	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.099	0.14	16.74	18.00	1.337	0.132	22.0
Back side	RMC	1412/1732.4	1:1	0.113	-0.14	16.74	18.00	1.337	0.151	22.0
Left side	RMC	1412/1732.4	1:1	0.078	0.00	16.74	18.00	1.337	0.104	22.0
Top side	RMC	1412/1732.4	1:1	0.160	0.02	16.74	18.00	1.337	0.214	22.0

Table 30: SAR of WCDMA Band IV for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.5 SAR Result of WCDMA Band V

Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.155	0.02	23.29	25.00	1.483	0.230	22.0
Left tilted	RMC	4182/836.4	1:1	0.096	0.06	23.29	25.00	1.483	0.142	22.0
Right cheek	RMC	4182/836.4	1:1	0.212	-0.19	23.29	25.00	1.483	0.314	22.0
Right tilted	RMC	4182/836.4	1:1	0.102	0.03	23.29	25.00	1.483	0.151	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.169	0.05	23.29	25.00	1.483	0.251	22.0
Back side	RMC	4182/836.4	1:1	0.242	0.08	23.29	25.00	1.483	0.359	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.317	0.02	23.29	25.00	1.483	0.470	22.0
Back side	RMC	4182/836.4	1:1	0.498	0.03	23.29	25.00	1.483	0.738	22.0
Right side	RMC	4182/836.4	1:1	0.274	-0.06	23.29	25.00	1.483	0.406	22.0
Bottom side	RMC	4182/836.4	1:1	0.362	0.03	23.29	25.00	1.483	0.537	22.0
Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.563	0.02	23.73	25.00	1.340	0.754	22.0
Left tilted	RMC	4182/836.4	1:1	0.075	0.05	23.73	25.00	1.340	0.101	22.0
Right cheek	RMC	4182/836.4	1:1	0.316	-0.03	23.73	25.00	1.340	0.423	22.0
Right tilted	RMC	4182/836.4	1:1	0.069	0.00	23.73	25.00	1.340	0.093	22.0
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.163	0.01	23.73	25.00	1.340	0.218	22.0
Back side	RMC	4182/836.4	1:1	0.146	-0.08	23.73	25.00	1.340	0.196	22.0
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.266	0.13	23.73	25.00	1.340	0.356	22.0
Back side	RMC	4182/836.4	1:1	0.240	0.09	23.73	25.00	1.340	0.322	22.0
Left side	RMC	4182/836.4	1:1	0.539	0.03	23.73	25.00	1.340	0.722	22.0

Table 31: SAR of WCDMA Band V for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.





8.3.6 SAR Result of LTE Band 2

Ant 2 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	18900/1880	1:1	0.073	0.04	23.22	24.00	1.197	0.088	22.1
Left tilted	20	QPSK	1_50	18900/1880	1:1	0.057	0.03	23.22	24.00	1.197	0.068	22.1
Right cheek	20	QPSK	1_50	18900/1880	1:1	0.080	0.01	23.22	24.00	1.197	0.095	22.1
Right tilted	20	QPSK	1_50	18900/1880	1:1	0.071	0.03	23.22	24.00	1.197	0.084	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_50	18700/1860	1:1	0.063	0.07	22.43	23.00	1.140	0.071	22.1
Left tilted	20	QPSK	50_50	18700/1860	1:1	0.052	0.03	22.43	23.00	1.140	0.059	22.1
Right cheek	20	QPSK	50_50	18700/1860	1:1	0.070	0.03	22.43	23.00	1.140	0.080	22.1
Right tilted	20	QPSK	50_50	18700/1860	1:1	0.060	0.03	22.43	23.00	1.140	0.068	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	18900/1880	1:1	0.160	-0.17	23.22	24.00	1.197	0.191	22.1
Back side	20	QPSK	1_50	18900/1880	1:1	0.196	0.05	23.22	24.00	1.197	0.235	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_50	18700/1860	1:1	0.137	-0.14	22.43	23.00	1.140	0.156	22.1
Back side	20	QPSK	50_50	18700/1860	1:1	0.145	-0.02	22.43	23.00	1.140	0.165	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_50	18900/1880	1:1	0.308	0.19	23.22	24.00	1.197	0.369	22.1
Back side	20	QPSK	1_50	18900/1880	1:1	0.319	0.07	23.22	24.00	1.197	0.382	22.1
Left side	20	QPSK	1_50	18900/1880	1:1	0.171	0.05	23.22	24.00	1.197	0.205	22.1
Bottom side	20	QPSK	1_50	18900/1880	1:1	0.694	-0.15	23.22	24.00	1.197	0.831	22.1
Bottom side	20	QPSK	1_0	18700/1860	1:1	0.724	-0.02	23.22	24.00	1.197	0.866	22.1
Bottom side	20	QPSK	1_0	19100/1900	1:1	0.658	-0.11	23.14	24.00	1.219	0.802	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_50	18700/1860	1:1	0.272	0.07	22.43	23.00	1.140	0.310	22.1
Back side	20	QPSK	50_50	18700/1860	1:1	0.273	-0.13	22.43	23.00	1.140	0.311	22.1
Left side	20	QPSK	50_50	18700/1860	1:1	0.153	-0.10	22.43	23.00	1.140	0.174	22.1
Bottom side	20	QPSK	50_50	18700/1860	1:1	0.592	-0.12	22.43	23.00	1.140	0.675	22.1
Hotspot Test data(Separate 10mm 100%RB)												
Bottom side	20	QPSK	100_0	18700/1860	1:1	0.590	0.03	22.49	23.00	1.125	0.664	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_99	19100/1900	1:1	0.159	0.09	17.75	19.00	1.334	0.212	22.1
Left tilted	20	QPSK	1_99	19100/1900	1:1	0.222	0.01	17.75	19.00	1.334	0.296	22.1
Right cheek	20	QPSK	1_99	19100/1900	1:1	0.503	0.03	17.75	19.00	1.334	0.671	22.1
Right tilted	20	QPSK	1_99	19100/1900	1:1	0.414	0.02	17.75	19.00	1.334	0.552	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_50	19100/1900	1:1	0.169	0.02	17.77	19.00	1.327	0.224	22.1
Left tilted	20	QPSK	50_50	19100/1900	1:1	0.240	0.01	17.77	19.00	1.327	0.319	22.1
Right cheek	20	QPSK	50_50	19100/1900	1:1	0.549	0.02	17.77	19.00	1.327	0.729	22.1
Right tilted	20	QPSK	50_50	19100/1900	1:1	0.445	0.02	17.77	19.00	1.327	0.591	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_99	19100/1900	1:1	0.143	-0.10	22.74	24.00	1.337	0.191	22.1
Back side	20	QPSK	1_99	19100/1900	1:1	0.229	0.10	22.74	24.00	1.337	0.306	22.1



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Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_50	19100/1900	1:1	0.124	-0.10	21.78	23.00	1.324	0.164	22.1
Back side	20	QPSK	50_50	19100/1900	1:1	0.135	-0.16	21.78	23.00	1.324	0.179	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_99	19100/1900	1:1	0.077	-0.15	17.75	19.00	1.334	0.103	22.1
Back side	20	QPSK	1_99	19100/1900	1:1	0.078	-0.08	17.75	19.00	1.334	0.104	22.1
Left side	20	QPSK	1_99	19100/1900	1:1	0.083	-0.19	17.75	19.00	1.334	0.111	22.1
Top side	20	QPSK	1_99	19100/1900	1:1	0.185	-0.02	17.75	19.00	1.334	0.247	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_50	19100/1900	1:1	0.082	0.12	17.77	19.00	1.327	0.109	22.1
Back side	20	QPSK	50_50	19100/1900	1:1	0.084	0.09	17.77	19.00	1.327	0.112	22.1
Left side	20	QPSK	50_50	19100/1900	1:1	0.091	0.13	17.77	19.00	1.327	0.121	22.1
Top side	20	QPSK	50_50	19100/1900	1:1	0.218	-0.01	17.77	19.00	1.327	0.289	22.1

Table 32: SAR of LTE Band 2 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.





8.3.7 SAR Result of LTE Band 4

Ant 2 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_50	20050/1720	1:1	0.091	0.03	23.09	24.00	1.233	0.113	22.1
Left tilted	20	QPSK	1_50	20050/1720	1:1	0.061	0.09	23.09	24.00	1.233	0.075	22.1
Right cheek	20	QPSK	1_50	20050/1720	1:1	0.132	0.03	23.09	24.00	1.233	0.163	22.1
Right tilted	20	QPSK	1_50	20050/1720	1:1	0.063	0.02	23.09	24.00	1.233	0.078	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_0	20050/1720	1:1	0.070	0.04	22.23	23.00	1.194	0.083	22.1
Left tilted	20	QPSK	50_0	20050/1720	1:1	0.048	0.09	22.23	23.00	1.194	0.057	22.1
Right cheek	20	QPSK	50_0	20050/1720	1:1	0.106	0.02	22.23	23.00	1.194	0.127	22.1
Right tilted	20	QPSK	50_0	20050/1720	1:1	0.049	0.01	22.23	23.00	1.194	0.058	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_50	20050/1720	1:1	0.207	0.13	23.09	24.00	1.233	0.255	22.1
Back side	20	QPSK	1_50	20050/1720	1:1	0.211	-0.01	23.09	24.00	1.233	0.260	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_0	20050/1720	1:1	0.189	0.12	22.23	23.00	1.194	0.226	22.1
Back side	20	QPSK	50_0	20050/1720	1:1	0.203	-0.13	22.23	23.00	1.194	0.242	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_50	20050/1720	1:1	0.451	-0.14	23.09	24.00	1.233	0.556	22.1
Back side	20	QPSK	1_50	20050/1720	1:1	0.407	0.10	23.09	24.00	1.233	0.502	22.1
Left side	20	QPSK	1_50	20050/1720	1:1	0.333	0.12	23.09	24.00	1.233	0.411	22.1
Bottom side	20	QPSK	1_50	20050/1720	1:1	0.716	0.08	23.09	24.00	1.233	0.883	22.1
Bottom side	20	QPSK	1_0	20175/1732.5	1:1	0.729	0.06	22.95	24.00	1.274	0.928	22.1
Bottom side	20	QPSK	1_0	20300/1745	1:1	0.718	0.14	23.00	24.00	1.259	0.904	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_0	20050/1720	1:1	0.365	-0.14	22.23	23.00	1.194	0.436	22.1
Back side	20	QPSK	50_0	20050/1720	1:1	0.331	0.10	22.23	23.00	1.194	0.395	22.1
Left side	20	QPSK	50_0	20050/1720	1:1	0.264	0.12	22.23	23.00	1.194	0.315	22.1
Bottom side	20	QPSK	50_0	20050/1720	1:1	0.598	0.08	22.23	23.00	1.194	0.714	22.1
Hotspot Test data(Separate 10mm 100%RB)												
Bottom side	20	QPSK	100_0	20050/1720	1:1	0.608	-0.08	22.20	23.00	1.202	0.731	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	20175/1732.5	1:1	0.224	0.06	17.75	19.00	1.334	0.299	22.1
Left tilted	20	QPSK	1_0	20175/1732.5	1:1	0.296	0.01	17.75	19.00	1.334	0.395	22.1
Right cheek	20	QPSK	1_0	20175/1732.5	1:1	0.741	0.03	17.75	19.00	1.334	0.988	22.1
Right cheek	20	QPSK	1_99	20050/1720	1:1	0.744	0.06	17.64	19.00	1.368	1.018	22.1
Right cheek	20	QPSK	1_0	20300/1745	1:1	0.809	0.03	17.72	19.00	1.343	1.086	22.1
Right tilted	20	QPSK	1_0	20175/1732.5	1:1	0.587	0.04	17.75	19.00	1.334	0.783	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_0	20050/1720	1:1	0.214	0.03	17.92	19.00	1.282	0.274	22.1
Left tilted	20	QPSK	50_0	20050/1720	1:1	0.278	0.10	17.92	19.00	1.282	0.356	22.1
Right cheek	20	QPSK	50_0	20050/1720	1:1	0.711	0.03	17.92	19.00	1.282	0.912	22.1
Right cheek	20	QPSK	50_0	20175/1732.5	1:1	0.783	-0.04	17.75	19.00	1.334	1.044	22.1
Right cheek	20	QPSK	50_0	20300/1745	1:1	0.841	-0.01	17.91	19.00	1.285	1.081	22.1



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Right cheek -Repeat	20	QPSK	50_0	20300/1745	1:1	0.825	0.06	17.91	19.00	1.285	1.060	22.1
Right tilted	20	QPSK	50_0	20050/1720	1:1	0.565	0.03	17.92	19.00	1.282	0.725	22.1
Head Test Data(100%RB)												
Right cheek	20	QPSK	100_0	20050/1720	1:1	0.743	0.00	17.41	19.00	1.442	1.071	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	20175/1732.5	1:1	0.240	0.09	22.49	24.00	1.416	0.340	22.1
Back side	20	QPSK	1_0	20175/1732.5	1:1	0.306	0.04	22.49	24.00	1.416	0.433	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_0	20050/1720	1:1	0.172	0.15	21.50	23.00	1.413	0.243	22.1
Back side	20	QPSK	50_0	20050/1720	1:1	0.178	0.17	21.50	23.00	1.413	0.251	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	20175/1732.5	1:1	0.125	0.10	17.75	19.00	1.334	0.167	22.1
Back side	20	QPSK	1_0	20175/1732.5	1:1	0.141	-0.13	17.75	19.00	1.334	0.188	22.1
Left side	20	QPSK	1_0	20175/1732.5	1:1	0.097	0.14	17.75	19.00	1.334	0.129	22.1
Top side	20	QPSK	1_0	20175/1732.5	1:1	0.217	0.05	17.75	19.00	1.334	0.289	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_0	20050/1720	1:1	0.114	0.16	17.92	19.00	1.282	0.146	22.1
Back side	20	QPSK	50_0	20050/1720	1:1	0.124	0.16	17.92	19.00	1.282	0.159	22.1
Left side	20	QPSK	50_0	20050/1720	1:1	0.088	0.00	17.92	19.00	1.282	0.113	22.1
Top side	20	QPSK	50_0	20050/1720	1:1	0.202	0.09	17.92	19.00	1.282	0.259	22.1

Table 33: SAR of LTE Band 4 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek(Ant4)	20300/1745	0.841	0.825	1.019	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.8 SAR Result of LTE Band 5

Ant 0 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	10	QPSK	1_0	20600/844	1:1	0.150	-0.04	22.75	24.00	1.334	0.200	22.1
Left tilted	10	QPSK	1_0	20600/844	1:1	0.084	0.05	22.75	24.00	1.334	0.112	22.1
Right cheek	10	QPSK	1_0	20600/844	1:1	0.190	0.05	22.75	24.00	1.334	0.253	22.1
Right tilted	10	QPSK	1_0	20600/844	1:1	0.093	0.06	22.75	24.00	1.334	0.124	22.1
Head Test Data(50%RB)												
Left cheek	10	QPSK	25_13	20600/844	1:1	0.115	0.10	21.85	23.00	1.303	0.150	22.1
Left tilted	10	QPSK	25_13	20600/844	1:1	0.071	-0.03	21.85	23.00	1.303	0.093	22.1
Right cheek	10	QPSK	25_13	20600/844	1:1	0.151	0.01	21.85	23.00	1.303	0.197	22.1
Right tilted	10	QPSK	25_13	20600/844	1:1	0.082	0.03	21.85	23.00	1.303	0.106	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	10	QPSK	1_0	20600/844	1:1	0.151	0.07	22.75	24.00	1.334	0.201	22.1
Back side	10	QPSK	1_0	20600/844	1:1	0.230	0.10	22.75	24.00	1.334	0.307	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	10	QPSK	25_13	20600/844	1:1	0.119	0.16	21.85	23.00	1.303	0.155	22.1
Back side	10	QPSK	25_13	20600/844	1:1	0.185	-0.07	21.85	23.00	1.303	0.241	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	10	QPSK	1_0	20600/844	1:1	0.282	-0.10	22.75	24.00	1.334	0.376	22.1
Back side	10	QPSK	1_0	20600/844	1:1	0.458	0.09	22.75	24.00	1.334	0.611	22.1
Right side	10	QPSK	1_0	20600/844	1:1	0.251	0.10	22.75	24.00	1.334	0.335	22.1
Bottom side	10	QPSK	1_0	20600/844	1:1	0.325	0.02	22.75	24.00	1.334	0.433	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	10	QPSK	25_13	20600/844	1:1	0.231	-0.15	21.85	23.00	1.303	0.301	22.1
Back side	10	QPSK	25_13	20600/844	1:1	0.378	-0.17	21.85	23.00	1.303	0.493	22.1
Right side	10	QPSK	25_13	20600/844	1:1	0.202	-0.08	21.85	23.00	1.303	0.263	22.1
Bottom side	10	QPSK	25_13	20600/844	1:1	0.263	-0.11	21.85	23.00	1.303	0.343	22.1



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Ant 1 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	10	QPSK	1_0	20600/844	1:1	0.590	-0.03	22.97	24.00	1.268	0.748	22.1
Left tilted	10	QPSK	1_0	20600/844	1:1	0.056	0.02	22.97	24.00	1.268	0.071	22.1
Right cheek	10	QPSK	1_0	20600/844	1:1	0.287	-0.06	22.97	24.00	1.268	0.364	22.1
Right tilted	10	QPSK	1_0	20600/844	1:1	0.056	0.04	22.97	24.00	1.268	0.071	22.1
Head Test Data(50%RB)												
Left cheek	10	QPSK	25_13	20450/829	1:1	0.429	0.04	21.99	23.00	1.262	0.541	22.1
Left tilted	10	QPSK	25_13	20450/829	1:1	0.038	-0.01	21.99	23.00	1.262	0.048	22.1
Right cheek	10	QPSK	25_13	20450/829	1:1	0.196	-0.06	21.99	23.00	1.262	0.247	22.1
Right tilted	10	QPSK	25_13	20450/829	1:1	0.039	0.02	21.99	23.00	1.262	0.049	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	10	QPSK	1_0	20600/844	1:1	0.146	0.10	22.97	24.00	1.268	0.185	22.1
Back side	10	QPSK	1_0	20600/844	1:1	0.132	0.14	22.97	24.00	1.268	0.167	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	10	QPSK	25_13	20450/829	1:1	0.085	-0.10	21.99	23.00	1.262	0.107	22.1
Back side	10	QPSK	25_13	20450/829	1:1	0.084	0.07	21.99	23.00	1.262	0.106	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	10	QPSK	1_0	20600/844	1:1	0.242	-0.09	22.97	24.00	1.268	0.307	22.1
Back side	10	QPSK	1_0	20600/844	1:1	0.229	-0.16	22.97	24.00	1.268	0.290	22.1
Left side	10	QPSK	1_0	20600/844	1:1	0.480	0.00	22.97	24.00	1.268	0.608	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	10	QPSK	25_13	20450/829	1:1	0.145	0.06	21.99	23.00	1.262	0.183	22.1
Back side	10	QPSK	25_13	20450/829	1:1	0.136	0.02	21.99	23.00	1.262	0.172	22.1
Left side	10	QPSK	25_13	20450/829	1:1	0.284	0.11	21.99	23.00	1.262	0.358	22.1

Table 34: SAR of LTE Band 5 for Head and Body.

Note:

- 1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3)Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:



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8.3.9 SAR Result of LTE Band 7

Ant 2 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW	Modulation	RB Size_RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1 0	21350/2560	1:1	0.129	0.02	23.25	24.00	1.189	0.153	22.1
Left cheek	20	QPSK	PCC 1 0	21350/2560	1:1	0.125	0.04	23.21	24.00	1.199	0.150	22.1
			SCC 1 99	21152/2540.2								
Left tilted	20	QPSK	1 0	21350/2560	1:1	0.034	0.00	23.25	24.00	1.189	0.041	22.1
Right cheek	20	QPSK	1 0	21350/2560	1:1	0.115	0.03	23.25	24.00	1.189	0.137	22.1
Right tilted	20	QPSK	1 0	21350/2560	1:1	0.083	0.08	23.25	24.00	1.189	0.099	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50 25	21350/2560	1:1	0.128	0.08	22.39	23.00	1.151	0.147	22.1
Left tilted	20	QPSK	50 25	21350/2560	1:1	0.019	0.04	22.39	23.00	1.151	0.022	22.1
Right cheek	20	QPSK	50 25	21350/2560	1:1	0.059	0.06	22.39	23.00	1.151	0.068	22.1
Right tilted	20	QPSK	50 25	21350/2560	1:1	0.055	0.03	22.39	23.00	1.151	0.063	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1 0	21350/2560	1:1	0.247	-0.13	23.25	24.00	1.189	0.294	22.1
Back side	20	QPSK	1 0	21350/2560	1:1	0.291	0.01	23.25	24.00	1.189	0.346	22.1
Back side	20	QPSK	PCC 1 0	21350/2560	1:1	0.283	0.05	23.21	24.00	1.199	0.339	22.1
			SCC 1 99	21152/2540.2								
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50 25	21350/2560	1:1	0.201	0.07	22.39	23.00	1.151	0.231	22.1
Back side	20	QPSK	50 25	21350/2560	1:1	0.246	-0.17	22.39	23.00	1.151	0.283	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1 0	21350/2560	1:1	0.238	-0.07	20.21	21.00	1.199	0.285	22.1
Back side	20	QPSK	1 0	21350/2560	1:1	0.307	0.00	20.21	21.00	1.199	0.368	22.1
Left side	20	QPSK	1 0	21350/2560	1:1	0.082	0.07	20.21	21.00	1.199	0.098	22.1
Bottom side	20	QPSK	1 0	21350/2560	1:1	0.488	0.07	20.21	21.00	1.199	0.585	22.1
Bottom side	20	QPSK	PCC 1 0	21350/2560	1:1	0.475	0.14	20.19	21.00	1.205	0.572	22.1
			SCC 1 99	21152/2540.2								
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50 25	21350/2560	1:1	0.247	0.13	20.46	21.00	1.132	0.280	22.1
Back side	20	QPSK	50 25	21350/2560	1:1	0.311	0.07	20.46	21.00	1.132	0.352	22.1
Left side	20	QPSK	50 25	21350/2560	1:1	0.083	0.01	20.46	21.00	1.132	0.094	22.1
Bottom side	20	QPSK	50 25	21350/2560	1:1	0.508	0.03	20.46	21.00	1.132	0.575	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW	Modulation	RB Size_RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1 0	21350/2560	1:1	0.373	-0.05	16.87	18.00	1.297	0.484	22.1
Left tilted	20	QPSK	1 0	21350/2560	1:1	0.514	0.08	16.87	18.00	1.297	0.667	22.1
Right cheek	20	QPSK	1 0	21350/2560	1:1	0.785	0.03	16.87	18.00	1.297	1.018	22.1
Right cheek	20	QPSK	1 0	20850/2510	1:1	0.738	0.06	16.86	18.00	1.300	0.960	22.1
Right cheek	20	QPSK	1 0	21100/2535	1:1	0.744	0.01	16.85	18.00	1.303	0.970	22.1
Right tilted	20	QPSK	1 0	21350/2560	1:1	0.670	-0.06	16.87	18.00	1.297	0.869	22.1
Right tilted	20	QPSK	1 0	20850/2510	1:1	0.731	0.09	16.86	18.00	1.300	0.950	22.1
Right tilted	20	QPSK	1 0	21100/2535	1:1	0.749	0.08	16.85	18.00	1.303	0.976	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50 0	20850/2510	1:1	0.369	0.12	16.92	18.00	1.282	0.473	22.1
Left tilted	20	QPSK	50 0	20850/2510	1:1	0.398	0.03	16.92	18.00	1.282	0.510	22.1
Right cheek	20	QPSK	50 0	20850/2510	1:1	0.809	0.02	16.92	18.00	1.282	1.037	22.1
Right cheek -Repeat	20	QPSK	50 0	20850/2510	1:1	0.801	0.13	16.92	18.00	1.282	1.027	22.1
Right cheek	20	QPSK	PCC 1 99	20850/2510	1:1	0.787	-0.19	16.88	18.00	1.294	1.019	22.1
			SCC 1 0	21048/2529.8								
Right cheek	20	QPSK	50 0	21100/2535	1:1	0.763	0.01	16.81	18.00	1.315	1.004	22.1
Right cheek	20	QPSK	50 0	21350/2560	1:1	0.760	0.07	16.85	18.00	1.303	0.990	22.1
Right tilted	20	QPSK	50 0	20850/2510	1:1	0.765	0.07	16.92	18.00	1.282	0.981	22.1
Right tilted	20	QPSK	50 0	21100/2535	1:1	0.740	0.03	16.81	18.00	1.315	0.973	22.1

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Right tilted	20	QPSK	50 0	21350/2560	1:1	0.750	0.01	16.85	18.00	1.303	0.977	22.1
Head Test Data(100%RB)												
Right cheek	20	QPSK	100 0	20850/2510	1:1	0.771	0.01	16.80	18.00	1.318	1.016	22.1
Right tilted	20	QPSK	100 0	20850/2510	1:1	0.745	0.12	16.80	18.00	1.318	0.982	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1 0	21350/2560	1:1	0.153	0.08	19.84	21.00	1.306	0.200	22.1
Front side	20	QPSK	PCC 1 0	21350/2560	1:1	0.149	0.01	19.79	21.00	1.321	0.197	22.1
			SCC 1 99	21152/2540.2								
Back side	20	QPSK	1 0	21350/2560	1:1	0.150	0.18	19.84	21.00	1.306	0.196	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50 0	20850/2510	1:1	0.119	-0.07	18.89	20.00	1.291	0.154	22.1
Back side	20	QPSK	50 0	20850/2510	1:1	0.119	0.02	18.89	20.00	1.291	0.154	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1 0	21350/2560	1:1	0.139	0.05	16.87	18.00	1.297	0.180	22.1
Back side	20	QPSK	1 0	21350/2560	1:1	0.128	0.15	16.87	18.00	1.297	0.166	22.1
Left side	20	QPSK	1 0	21350/2560	1:1	0.082	0.11	16.87	18.00	1.297	0.106	22.1
Top side	20	QPSK	1 0	21350/2560	1:1	0.332	0.02	16.87	18.00	1.297	0.431	22.1
Top side	20	QPSK	PCC 1 0	21350/2560	1:1	0.324	0.09	16.85	18.00	1.303	0.422	22.1
			SCC 1 99	21152/2540.2								
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50 0	20850/2510	1:1	0.146	0.00	16.92	18.00	1.282	0.187	22.1
Back side	20	QPSK	50 0	20850/2510	1:1	0.134	0.01	16.92	18.00	1.282	0.172	22.1
Left side	20	QPSK	50 0	20850/2510	1:1	0.084	0.18	16.92	18.00	1.282	0.108	22.1
Top side	20	QPSK	50 0	20850/2510	1:1	0.255	-0.16	16.92	18.00	1.282	0.327	22.1

Table 35: SAR of LTE Band 7 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek(Ant4)	20850/2510	0.809	0.801	1.010	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.10 SAR Result of LTE Band 38

Ant 2 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	37850/2580	1:1.58	0.071	0.09	23.23	24.00	1.194	0.085	22.1
Left cheek	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.069	0.01	23.19	24.00	1.205	0.083	22.1
			SCC 1_0	38048/2599.8								
Left tilted	20	QPSK	1_0	37850/2580	1:1.58	0.022	0.02	23.23	24.00	1.194	0.026	22.1
Right cheek	20	QPSK	1_0	37850/2580	1:1.58	0.068	0.04	23.23	24.00	1.194	0.081	22.1
Right tilted	20	QPSK	1_0	37850/2580	1:1.58	0.058	-0.06	23.23	24.00	1.194	0.070	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	37850/2580	1:1.58	0.070	0.01	22.34	23.00	1.164	0.081	22.1
Left tilted	20	QPSK	50_25	37850/2580	1:1.58	0.014	0.13	22.34	23.00	1.164	0.016	22.1
Right cheek	20	QPSK	50_25	37850/2580	1:1.58	0.054	0.05	22.34	23.00	1.164	0.063	22.1
Right tilted	20	QPSK	50_25	37850/2580	1:1.58	0.041	0.04	22.34	23.00	1.164	0.047	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	37850/2580	1:1.58	0.147	0.06	23.23	24.00	1.194	0.176	22.1
Back side	20	QPSK	1_0	37850/2580	1:1.58	0.174	0.06	23.23	24.00	1.194	0.208	22.1
Back side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.169	-0.07	23.19	24.00	1.205	0.204	22.1
			SCC 1_0	38048/2599.8								
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	37850/2580	1:1.58	0.112	0.16	22.34	23.00	1.164	0.130	22.1
Back side	20	QPSK	50_25	37850/2580	1:1.58	0.137	-0.19	22.34	23.00	1.164	0.159	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	37850/2580	1:1.58	0.278	-0.16	23.23	24.00	1.194	0.332	22.1
Back side	20	QPSK	1_0	37850/2580	1:1.58	0.371	-0.03	23.23	24.00	1.194	0.443	22.1
Left side	20	QPSK	1_0	37850/2580	1:1.58	0.102	0.07	23.23	24.00	1.194	0.122	22.1
Bottom side	20	QPSK	1_0	37850/2580	1:1.58	0.560	-0.09	23.23	24.00	1.194	0.669	22.1
Bottom side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.543	-0.16	23.19	24.00	1.205	0.654	22.1
			SCC 1_0	38048/2599.8								
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	37850/2580	1:1.58	0.217	0.13	22.34	23.00	1.164	0.253	22.1
Back side	20	QPSK	50_25	37850/2580	1:1.58	0.294	0.06	22.34	23.00	1.164	0.342	22.1
Left side	20	QPSK	50_25	37850/2580	1:1.58	0.082	0.14	22.34	23.00	1.164	0.095	22.1
Bottom side	20	QPSK	50_25	37850/2580	1:1.58	0.479	0.16	22.34	23.00	1.164	0.558	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW.	Modulation	RB Size_ RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1_0	38000/2595	1:1.58	0.325	0.02	18.77	20.00	1.327	0.431	22.1
Left tilted	20	QPSK	1_0	38000/2595	1:1.58	0.428	0.03	18.77	20.00	1.327	0.568	22.1
Right cheek	20	QPSK	1_0	38000/2595	1:1.58	0.673	-0.06	18.77	20.00	1.327	0.893	22.1
Right cheek	20	QPSK	1_0	37850/2580	1:1.58	0.665	0.02	18.59	20.00	1.384	0.920	22.1
Right cheek	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.645	0.17	18.55	20.00	1.396	0.901	22.1
			SCC 1_0	38048/2599.8								
Right cheek	20	QPSK	1_50	38150/2610	1:1.58	0.641	-0.02	18.66	20.00	1.361	0.873	22.1
Right tilted	20	QPSK	1_0	38000/2595	1:1.58	0.626	0.09	18.77	20.00	1.327	0.831	22.1
Right tilted	20	QPSK	1_0	37850/2580	1:1.58	0.632	0.04	18.59	20.00	1.384	0.874	22.1
Right tilted	20	QPSK	1_50	38150/2610	1:1.58	0.607	0.05	18.66	20.00	1.361	0.826	22.1



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Head Test Data(50%RB)												
Left cheek	20	QPSK	50_25	37850/2580	1:1.58	0.346	0.06	18.86	20.00	1.300	0.450	22.1
Left tilted	20	QPSK	50_25	37850/2580	1:1.58	0.451	0.01	18.86	20.00	1.300	0.586	22.1
Right cheek	20	QPSK	50_25	37850/2580	1:1.58	0.702	0.02	18.86	20.00	1.300	0.913	22.1
Right cheek	20	QPSK	50_25	38000/2595	1:1.58	0.656	-0.05	18.80	20.00	1.318	0.865	22.1
Right cheek	20	QPSK	50_0	38150/2610	1:1.58	0.642	0.02	18.75	20.00	1.334	0.856	22.1
Right tilted	20	QPSK	50_25	37850/2580	1:1.58	0.662	0.01	18.86	20.00	1.300	0.861	22.1
Right tilted	20	QPSK	50_25	38000/2595	1:1.58	0.643	-0.06	18.80	20.00	1.318	0.848	22.1
Right tilted	20	QPSK	50_0	38150/2610	1:1.58	0.634	-0.04	18.75	20.00	1.334	0.845	22.1
Head Test Data(100%RB)												
Right cheek	20	QPSK	100_0	38000/2595	1:1.58	0.625	0.05	18.77	20.00	1.327	0.830	22.1
Right tilted	20	QPSK	100_0	38000/2595	1:1.58	0.617	0.13	18.77	20.00	1.327	0.819	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1_0	38000/2595	1:1.58	0.148	0.04	21.81	23.00	1.315	0.195	22.1
Front side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.141	0.19	21.78	23.00	1.324	0.187	22.1
			SCC 1_0	38048/2599.8								
Back side	20	QPSK	1_0	38000/2595	1:1.58	0.147	0.02	21.81	23.00	1.315	0.193	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50_25	37850/2580	1:1.58	0.131	0.03	20.81	22.00	1.315	0.172	22.1
Back side	20	QPSK	50_25	37850/2580	1:1.58	0.125	-0.01	20.81	22.00	1.315	0.164	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1_0	38000/2595	1:1.58	0.127	-0.08	18.77	20.00	1.327	0.169	22.1
Back side	20	QPSK	1_0	38000/2595	1:1.58	0.112	0.03	18.77	20.00	1.327	0.149	22.1
Left side	20	QPSK	1_0	38000/2595	1:1.58	0.085	0.01	18.77	20.00	1.327	0.113	22.1
Top side	20	QPSK	1_0	38000/2595	1:1.58	0.299	-0.12	18.77	20.00	1.327	0.397	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50_25	37850/2580	1:1.58	0.134	0.10	18.86	20.00	1.300	0.174	22.1
Back side	20	QPSK	50_25	37850/2580	1:1.58	0.117	0.09	18.86	20.00	1.300	0.152	22.1
Left side	20	QPSK	50_25	37850/2580	1:1.58	0.088	-0.14	18.86	20.00	1.300	0.114	22.1
Top side	20	QPSK	50_25	37850/2580	1:1.58	0.309	0.01	18.86	20.00	1.300	0.402	22.1
Top side	20	QPSK	PCC 1_99	37850/2580	1:1.58	0.283	-0.11	18.55	20.00	1.396	0.395	22.1
			SCC 1_0	38048/2599.8								

Table 36: SAR of LTE Band 38 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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8.3.11 SAR Result of LTE Band 41

Ant 2 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW	Modulation	RB Size_RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1 0	41490/2680	1:1.58	0.070	0.07	23.38	24.00	1.153	0.081	22.1
Left tilted	20	QPSK	1 0	41490/2680	1:1.58	0.023	0.00	23.38	24.00	1.153	0.027	22.1
Right cheek	20	QPSK	1 0	41490/2680	1:1.58	0.067	0.19	23.38	24.00	1.153	0.077	22.1
Right tilted	20	QPSK	1 0	41490/2680	1:1.58	0.060	0.01	23.38	24.00	1.153	0.069	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50 0	41490/2680	1:1.58	0.065	0.09	22.39	23.00	1.151	0.075	22.1
Left tilted	20	QPSK	50 0	41490/2680	1:1.58	0.013	0.04	22.39	23.00	1.151	0.015	22.1
Right cheek	20	QPSK	50 0	41490/2680	1:1.58	0.021	0.09	22.39	23.00	1.151	0.024	22.1
Right tilted	20	QPSK	50 0	41490/2680	1:1.58	0.034	0.01	22.39	23.00	1.151	0.039	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1 0	41490/2680	1:1.58	0.128	-0.08	23.38	24.00	1.153	0.148	22.1
Back side	20	QPSK	1 0	41490/2680	1:1.58	0.165	0.02	23.38	24.00	1.153	0.190	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50 0	41490/2680	1:1.58	0.103	0.06	22.39	23.00	1.151	0.119	22.1
Back side	20	QPSK	50 0	41490/2680	1:1.58	0.125	0.14	22.39	23.00	1.151	0.144	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1 0	41490/2680	1:1.58	0.237	0.13	23.38	24.00	1.153	0.273	22.1
Back side	20	QPSK	1 0	41490/2680	1:1.58	0.299	0.17	23.38	24.00	1.153	0.345	22.1
Left side	20	QPSK	1 0	41490/2680	1:1.58	0.078	0.15	23.38	24.00	1.153	0.090	22.1
Bottom side	20	QPSK	1 0	41490/2680	1:1.58	0.700	0.04	23.38	24.00	1.153	0.807	22.1
Bottom side	20	QPSK	1 0	39750/2506	1:1.58	0.564	0.01	23.31	24.00	1.172	0.661	22.1
Bottom side	20	QPSK	1 50	40185/2549.5	1:1.58	0.559	-0.03	23.17	24.00	1.211	0.677	22.1
Bottom side	20	QPSK	1 99	40620/2593	1:1.58	0.578	0.00	23.27	24.00	1.183	0.684	22.1
Bottom side	20	QPSK	1 0	41055/2636.5	1:1.58	0.634	-0.01	23.24	24.00	1.191	0.755	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50 0	41490/2680	1:1.58	0.181	0.09	22.39	23.00	1.151	0.208	22.1
Back side	20	QPSK	50 0	41490/2680	1:1.58	0.232	0.10	22.39	23.00	1.151	0.267	22.1
Left side	20	QPSK	50 0	41490/2680	1:1.58	0.062	0.13	22.39	23.00	1.151	0.071	22.1
Bottom side	20	QPSK	50 0	41490/2680	1:1.58	0.477	0.08	22.39	23.00	1.151	0.549	22.1
Hotspot Test data(Separate 10mm 100%RB)												
Bottom side	20	QPSK	100 0	41490/2680	1:1.58	0.475	-0.01	22.38	23.00	1.153	0.548	22.1
Ant 4 Test Record												
Test position	Test mode			Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
	BW	Modulation	RB Size_RB offset									
Head Test Data(1RB)												
Left cheek	20	QPSK	1 0	39750/2506	1:1.58	0.314	0.18	19.17	20.00	1.211	0.380	22.1
Left tilted	20	QPSK	1 0	39750/2506	1:1.58	0.299	-0.01	19.17	20.00	1.211	0.362	22.1
Right cheek	20	QPSK	1 0	39750/2506	1:1.58	0.801	-0.04	19.17	20.00	1.211	0.970	22.1
Right cheek	20	QPSK	1 0	40185/2549.5	1:1.58	0.828	0.05	18.90	20.00	1.288	1.067	22.1
Right cheek	20	QPSK	1 99	40620/2593	1:1.58	0.758	0.12	19.16	20.00	1.213	0.920	22.1
Right cheek	20	QPSK	1 0	41055/2636.5	1:1.58	0.745	0.01	18.90	20.00	1.288	0.960	22.1
Right cheek	20	QPSK	1 0	41490/2680	1:1.58	0.705	0.11	18.96	20.00	1.271	0.896	22.1
Right tilted	20	QPSK	1 0	39750/2506	1:1.58	0.709	0.01	19.17	20.00	1.211	0.858	22.1
Right tilted	20	QPSK	1 0	40185/2549.5	1:1.58	0.688	0.04	18.90	20.00	1.288	0.886	22.1
Right tilted	20	QPSK	1 99	40620/2593	1:1.58	0.652	0.02	19.16	20.00	1.213	0.791	22.1
Right tilted	20	QPSK	1 0	41055/2636.5	1:1.58	0.647	-0.03	18.90	20.00	1.288	0.833	22.1
Right tilted	20	QPSK	1 0	41490/2680	1:1.58	0.624	0.05	18.96	20.00	1.271	0.793	22.1
Head Test Data(50%RB)												
Left cheek	20	QPSK	50 25	39750/2506	1:1.58	0.351	-0.01	18.89	20.00	1.291	0.453	22.1
Left tilted	20	QPSK	50 25	39750/2506	1:1.58	0.385	0.02	18.89	20.00	1.291	0.497	22.1
Right cheek	20	QPSK	50 25	39750/2506	1:1.58	0.831	0.08	18.89	20.00	1.291	1.073	22.1
Right cheek	20	QPSK	50 25	40185/2549.5	1:1.58	0.840	-0.06	18.87	20.00	1.297	1.090	22.1
Right cheek-Repeat	20	QPSK	50 25	40185/2549.5	1:1.58	0.839	-0.01	18.87	20.00	1.297	1.088	22.1
Right cheek	20	QPSK	50 25	40620/2593	1:1.58	0.795	0.12	18.74	20.00	1.337	1.063	22.1
Right cheek	20	QPSK	50 0	41055/2636.5	1:1.58	0.757	0.04	18.78	20.00	1.324	1.003	22.1



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Right cheek	20	QPSK	50 25	41490/2680	1:1.58	0.689	0.34	18.87	20.00	1.297	0.894	22.1
Right tilted	20	QPSK	50 25	39750/2506	1:1.58	0.682	0.01	18.89	20.00	1.291	0.881	22.1
Right tilted	20	QPSK	50 25	40185/2549.5	1:1.58	0.716	0.02	18.87	20.00	1.297	0.929	22.1
Right tilted	20	QPSK	50 25	40620/2593	1:1.58	0.688	0.12	18.74	20.00	1.337	0.920	22.1
Right tilted	20	QPSK	50 0	41055/2636.5	1:1.58	0.661	0.05	18.78	20.00	1.324	0.875	22.1
Right tilted	20	QPSK	50 25	41490/2680	1:1.58	0.618	0.03	18.87	20.00	1.297	0.802	22.1
Head Test Data(100%RB)												
Right cheek	20	QPSK	100 0	41490/2680	1:1.58	0.685	0.07	18.86	20.00	1.300	0.891	22.1
Right tilted	20	QPSK	100 0	41490/2680	1:1.58	0.615	0.09	18.86	20.00	1.300	0.800	22.1
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK	1 0	39750/2506	1:1.58	0.129	0.12	21.98	23.00	1.265	0.163	22.1
Back side	20	QPSK	1 0	39750/2506	1:1.58	0.127	0.05	21.98	23.00	1.265	0.161	22.1
Body worn Test data(Separate 15mm 50%RB)												
Front side	20	QPSK	50 25	39750/2506	1:1.58	0.113	0.07	20.96	22.00	1.271	0.144	22.1
Back side	20	QPSK	50 25	39750/2506	1:1.58	0.111	0.08	20.96	22.00	1.271	0.141	22.1
Hotspot Test data(Separate 10mm 1RB)												
Front side	20	QPSK	1 0	39750/2506	1:1.58	0.138	-0.06	19.17	20.00	1.211	0.167	22.1
Back side	20	QPSK	1 0	39750/2506	1:1.58	0.114	0.02	19.17	20.00	1.211	0.138	22.1
Left side	20	QPSK	1 0	39750/2506	1:1.58	0.077	0.19	19.17	20.00	1.211	0.093	22.1
Top side	20	QPSK	1 0	39750/2506	1:1.58	0.184	0.17	19.17	20.00	1.211	0.223	22.1
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK	50 25	39750/2506	1:1.58	0.142	-0.10	18.89	20.00	1.291	0.183	22.1
Back side	20	QPSK	50 25	39750/2506	1:1.58	0.127	0.17	18.89	20.00	1.291	0.164	22.1
Left side	20	QPSK	50 25	39750/2506	1:1.58	0.079	-0.01	18.89	20.00	1.291	0.102	22.1
Top side	20	QPSK	50 25	39750/2506	1:1.58	0.254	0.09	18.89	20.00	1.291	0.328	22.1

Table 37: SAR of LTE Band 41 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek(Ant4)	40185/2549.5	0.840	0.839	1.001	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						



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8.3.12 SAR Result of WIFI 2.4G

MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	99.05%	1.010	0.829	-0.03	17.95	19.00	1.274	1.066	22
Left cheek -Repeat	802.11b	6/2437	99.05%	1.010	0.821	0.07	17.95	19.00	1.274	1.056	22
Left cheek	802.11b	1/2412	99.05%	1.010	0.806	0.10	17.87	19.00	1.297	1.056	22
Left tilted	802.11b	6/2437	99.05%	1.010	0.575	0.16	17.95	19.00	1.274	0.739	22
Right cheek	802.11b	6/2437	99.05%	1.010	0.237	0.06	17.95	19.00	1.274	0.305	22
Right tilted	802.11b	6/2437	99.05%	1.010	0.287	0.03	17.95	19.00	1.274	0.369	22
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.05%	1.010	0.223	0.01	23.02	24.00	1.253	0.282	22
Back side	802.11b	6/2437	99.05%	1.010	0.227	0.17	23.02	24.00	1.253	0.287	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.05%	1.010	0.402	0.11	23.02	24.00	1.253	0.509	22
Back side	802.11b	6/2437	99.05%	1.010	0.411	0.03	23.02	24.00	1.253	0.520	22
Right side	802.11b	6/2437	99.05%	1.010	0.303	0.07	23.02	24.00	1.253	0.383	22
Top side	802.11b	6/2437	99.05%	1.010	0.466	0.09	23.02	24.00	1.253	0.590	22
Additional Test data(simultaneous transmission with WWAN + WiFi 2.4G MIMO Receiver on)											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	802.11b	6/2437	99.05%	1.010	0.532	0.04	16.03	17.00	1.250	0.671	22

Table 38: SAR of WIFI 2.4G for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.
- 4) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

Test Position	Channel/Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Left cheek	6/2437	0.829	0.821	1.010	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						





8.3.13 SAR Result of WIFI 5G

MIMO Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11ac 20M	60/5300	98.80%	1.012	0.706	0.03	17.37	18.50	1.297	0.927	22.2
Left cheek	802.11ac 20M	52/5260	98.80%	1.012	0.683	-0.04	17.36	18.50	1.300	0.899	22.2
Left tilted	802.11ac 20M	60/5300	98.80%	1.012	0.545	-0.02	17.37	18.50	1.297	0.716	22.2
Right cheek	802.11ac 20M	60/5300	98.80%	1.012	0.361	0.09	17.37	18.50	1.297	0.474	22.2
Right tilted	802.11ac 20M	60/5300	98.80%	1.012	0.390	0.13	17.37	18.50	1.297	0.512	22.2
Head Test data of U-NII-2C											
Left cheek	802.11ac 20M	116/5580	98.80%	1.012	0.758	0.03	17.49	18.50	1.262	0.968	22.2
Left cheek	802.11ac 20M	100/5500	98.80%	1.012	0.682	-0.04	17.48	18.50	1.265	0.873	22.2
Left tilted	802.11ac 20M	116/5580	98.80%	1.012	0.744	0.02	17.49	18.50	1.262	0.950	22.2
Left tilted	802.11ac 20M	100/5500	98.80%	1.012	0.715	-0.04	17.48	18.50	1.265	0.915	22.2
Right cheek	802.11ac 20M	116/5580	98.80%	1.012	0.336	0.11	17.49	18.50	1.262	0.429	22.2
Right tilted	802.11ac 20M	116/5580	98.80%	1.012	0.336	-0.04	17.49	18.50	1.262	0.429	22.2
Head Test data of U-NII-3											
Left cheek	802.11ac 20M	157/5785	98.80%	1.012	0.657	0.02	17.51	18.50	1.256	0.835	22.2
Left cheek	802.11ac 20M	149/5745	98.80%	1.012	0.530	0.04	17.48	18.50	1.265	0.678	22.2
Left tilted	802.11ac 20M	157/5785	98.80%	1.012	0.584	0.11	17.51	18.50	1.256	0.742	22.2
Right cheek	802.11ac 20M	157/5785	98.80%	1.012	0.269	-0.03	17.51	18.50	1.256	0.342	22.2
Right tilted	802.11ac 20M	157/5785	98.80%	1.012	0.252	0.10	17.51	18.50	1.256	0.320	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11ac 20M	60/5300	98.80%	1.012	0.178	0.05	21.26	22.00	1.186	0.214	22.2
Back side	802.11ac 20M	60/5300	98.80%	1.012	0.206	0.00	21.26	22.00	1.186	0.247	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11ac 20M	116/5580	98.80%	1.012	0.201	-0.04	21.21	22.00	1.199	0.244	22.2
Back side	802.11ac 20M	116/5580	98.80%	1.012	0.333	0.05	21.21	22.00	1.199	0.404	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11ac 20M	157/5785	98.80%	1.012	0.184	0.04	21.33	22.00	1.167	0.217	22.2
Back side	802.11ac 20M	157/5785	98.80%	1.012	0.310	-0.19	21.33	22.00	1.167	0.366	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11ac 20M	40/5200	98.80%	1.012	0.316	-0.12	21.26	22.00	1.186	0.379	22.2
Back side	802.11ac 20M	40/5200	98.80%	1.012	0.268	-0.10	21.26	22.00	1.186	0.322	22.2
Right side	802.11ac 20M	40/5200	98.80%	1.012	0.470	-0.19	21.26	22.00	1.186	0.564	22.2
Top side	802.11ac 20M	40/5200	98.80%	1.012	0.267	0.07	21.26	22.00	1.186	0.320	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11ac 20M	157/5785	98.80%	1.012	0.287	0.15	21.33	22.00	1.167	0.339	22.2
Back side	802.11ac 20M	157/5785	98.80%	1.012	0.547	-0.13	21.33	22.00	1.167	0.646	22.2
Right side	802.11ac 20M	157/5785	98.80%	1.012	0.571	0.02	21.33	22.00	1.167	0.674	22.2
Top side	802.11ac 20M	157/5785	98.80%	1.012	0.173	0.16	21.33	22.00	1.167	0.204	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11ac 20M	60/5300	98.80%	1.012	1.020	0.14	21.26	22.00	1.186	1.224	22.2
Back side	802.11ac 20M	60/5300	98.80%	1.012	0.586	0.02	21.26	22.00	1.186	0.703	22.2
Right side	802.11ac 20M	60/5300	98.80%	1.012	1.930	-0.07	21.26	22.00	1.186	2.316	22.2
Right side	802.11ac 20M	64/5320	98.80%	1.012	1.940	0.10	21.24	22.00	1.191	2.339	22.2
Top side	802.11ac 20M	60/5300	98.80%	1.012	0.688	0.09	21.26	22.00	1.186	0.826	22.2



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Product specific 10g SAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11ac 20M	116/5580	98.80%	1.012	1.260	0.04	21.21	22.00	1.199	1.530	22.2
Back side	802.11ac 20M	116/5580	98.80%	1.012	1.180	0.02	21.21	22.00	1.199	1.433	22.2
Right side	802.11ac 20M	116/5580	98.80%	1.012	1.690	-0.11	21.21	22.00	1.199	2.052	22.2
Right side	802.11ac 20M	140/5700	98.80%	1.012	1.480	-0.15	21.20	22.00	1.202	1.801	22.2
Top side	802.11ac 20M	116/5580	98.80%	1.012	1.170	0.04	21.21	22.00	1.199	1.421	22.2
Additional Test data(simultaneous transmission with WWAN + WiFi 5G MIMO Receiver on)											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data of U-NII-2A											
Left cheek	802.11ac 20M	60/5300	98.80%	1.012	0.279	0.01	13.42	14.50	1.282	0.362	22.2
Left tilted	802.11ac 20M	60/5300	98.80%	1.012	0.213	-0.12	13.42	14.50	1.282	0.276	22.2
Right cheek	802.11ac 20M	60/5300	98.80%	1.012	0.142	0.03	13.42	14.50	1.282	0.184	22.2
Right tilted	802.11ac 20M	60/5300	98.80%	1.012	0.153	0.09	13.42	14.50	1.282	0.199	22.2
Head Test data of U-NII-2C											
Left cheek	802.11ac 20M	116/5580	98.80%	1.012	0.297	0.11	13.53	14.50	1.250	0.376	22.2
Left tilted	802.11ac 20M	116/5580	98.80%	1.012	0.297	0.08	13.53	14.50	1.250	0.376	22.2
Right cheek	802.11ac 20M	116/5580	98.80%	1.012	0.129	0.07	13.53	14.50	1.250	0.163	22.2
Right tilted	802.11ac 20M	116/5580	98.80%	1.012	0.127	0.00	13.53	14.50	1.250	0.161	22.2
Head Test data of U-NII-3											
Left cheek	802.11ac 20M	157/5785	98.80%	1.012	0.260	-0.03	13.59	14.50	1.233	0.325	22.2
Left tilted	802.11ac 20M	157/5785	98.80%	1.012	0.229	0.02	13.59	14.50	1.233	0.286	22.2
Right cheek	802.11ac 20M	157/5785	98.80%	1.012	0.101	-0.11	13.59	14.50	1.233	0.126	22.2
Right tilted	802.11ac 20M	157/5785	98.80%	1.012	0.097	0.05	13.59	14.50	1.233	0.121	22.2

Table 39: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Each channel was tested at the lowest data rate.
- 4) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- 5) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 6) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.14 SAR Result of BT

Ant5 Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	DH5	39/2441	76.80%	1.302	0.292	-0.03	13.83	14.50	1.167	0.444	22
Left tilted	DH5	39/2441	76.80%	1.302	0.191	0.04	13.83	14.50	1.167	0.290	22
Right cheek	DH5	39/2441	76.80%	1.302	0.108	0.03	13.83	14.50	1.167	0.164	22
Right tilted	DH5	39/2441	76.80%	1.302	0.171	0.01	13.83	14.50	1.167	0.260	22
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.80%	1.302	0.040	0.02	13.83	14.50	1.167	0.061	22
Back side	DH5	39/2441	76.80%	1.302	0.044	0.07	13.83	14.50	1.167	0.067	22
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.80%	1.302	0.062	0.01	13.83	14.50	1.167	0.095	22
Back side	DH5	39/2441	76.80%	1.302	0.075	-0.02	13.83	14.50	1.167	0.114	22
Right side	DH5	39/2441	76.80%	1.302	0.025	0.01	13.83	14.50	1.167	0.038	22
Top side	DH5	39/2441	76.80%	1.302	0.058	0.02	13.83	14.50	1.167	0.088	22
Ant6 Test Record											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	DH5	39/2441	76.78%	1.302	0.275	-0.07	14.35	14.50	1.035	0.371	22
Left tilted	DH5	39/2441	76.78%	1.302	0.189	0.06	14.35	14.50	1.035	0.255	22
Right cheek	DH5	39/2441	76.78%	1.302	0.107	0.01	14.35	14.50	1.035	0.144	22
Right tilted	DH5	39/2441	76.78%	1.302	0.169	0.00	14.35	14.50	1.035	0.228	22
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.78%	1.302	0.021	0.12	14.35	14.50	1.035	0.028	22
Back side	DH5	39/2441	76.78%	1.302	0.028	0.04	14.35	14.50	1.035	0.038	22
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.78%	1.302	0.041	0.06	14.35	14.50	1.035	0.055	22
Back side	DH5	39/2441	76.78%	1.302	0.050	-0.04	14.35	14.50	1.035	0.067	22
Right side	DH5	39/2441	76.78%	1.302	0.021	0.10	14.35	14.50	1.035	0.028	22
Top side	DH5	39/2441	76.78%	1.302	0.039	-0.03	14.35	14.50	1.035	0.053	22

Table 40: SAR of BT for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

• Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	GSM Voice_ANT0/4 + BT CH0_ANT5	Y	Y	N	Y
2	GSM Voice_ANT1/2 + BT CH0_ANT5	Y	Y	N	Y
3	GSM Voice_ANT0/4 + BT CH1_ANT6	Y	Y	N	Y
4	GSM Voice_ANT1/2 + BT CH1_ANT6	Y	Y	N	Y
5	GSM Voice_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
6	GSM Voice_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
7	GSM Voice_ANT0/4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
8	GSM Voice_ANT1/2 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
9	GSM Voice_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
10	GSM Voice_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
11	GSM Voice_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
12	GSM Voice_ANT1/2 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
13	GSM Voice_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
14	GSM Voice_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
15	GSM Voice_ANT0/4 + BT CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
16	GSM Voice_ANT1/2 + BT CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
17	GSM Voice_ANT0/4 + BT CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
18	GSM Voice_ANT1/2 + BT CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
19	GPRS/EDGE_ANT0/4 + BT CH0_ANT5	Y	Y	Y	Y
20	GPRS/EDGE_ANT1/2 + BT CH0_ANT5	Y	Y	Y	Y
21	GPRS/EDGE_ANT0/4 + BT CH1_ANT6	Y	Y	Y	Y
22	GPRS/EDGE_ANT1/2 + BT CH1_ANT6	Y	Y	Y	Y
23	GPRS/EDGE_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4	Y	Y	Y	Y
24	GPRS/EDGE_ANT1/2 + WiFi2.4G AP_MIMO_ANT5&4	Y	Y	Y	Y
25	GPRS/EDGE_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
26	GPRS/EDGE_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
27	GPRS/EDGE_ANT0/4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
28	GPRS/EDGE_ANT1/2 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
29	GPRS/EDGE_ANT0/4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
30	GPRS/EDGE_ANT1/2 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
31	GPRS/EDGE_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
32	GPRS/EDGE_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
33	GPRS/EDGE_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y



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34	GPRS/EDGE_ANT1/2+ WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
35	GPRS/EDGE_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
36	GPRS/EDGE_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
37	GPRS/EDGE_ANT0/4 + BT_CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
38	GPRS/EDGE_ANT1/2 + BT_CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
39	GPRS/EDGE_ANT0/4 + BT_CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
40	GPRS/EDGE_ANT1/2+ BT_CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
41	GPRS/EDGE_ANT0/4+ BT_CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
42	GPRS/EDGE_ANT1/2 + BT_CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
43	GPRS/EDGE_ANT0/4+ BT_CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
44	GPRS/EDGE_ANT1/2 + BT_CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
45	UMTS_ANT0/4 + BT_CH0_ANT5	Y	Y	Y	Y
46	UMTS_ANT1/2 + BT_CH0_ANT5	Y	Y	Y	Y
47	UMTS_ANT0/4 + BT_CH1_ANT6	Y	Y	Y	Y
48	UMTS_ANT1/2 + BT_CH1_ANT6	Y	Y	Y	Y
49	UMTS_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4	Y	Y	Y	Y
50	UMTS_ANT1/2+ WiFi2.4G AP_MIMO_ANT5&4	Y	Y	Y	Y
51	UMTS_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
52	UMTS_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
53	UMTS_ANT0/4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
54	UMTS_ANT1/2 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
55	UMTS_ANT0/4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
56	UMTS_ANT1/2 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
57	UMTS_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
58	UMTS_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
59	UMTS_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
60	UMTS_ANT1/2 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
61	UMTS_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
62	UMTS_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
63	UMTS_ANT0/4 + BT_CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
64	UMTS_ANT1/2 + BT_CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
65	UMTS_ANT0/4 + BT_CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
66	UMTS_ANT1/2 + BT_CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
67	UMTS_ANT0/4 + BT_CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
68	UMTS_ANT1/2+ BT_CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
69	UMTS_ANT0/4 + BT_CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
70	UMTS_ANT1/2 + BT_CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
71	LTE_ANT0/4 + BT_CH0_ANT5	Y	Y	Y	Y
72	LTE_ANT1/2 + BT_CH0_ANT5	Y	Y	Y	Y
73	LTE_ANT0/4 + BT_CH1_ANT6	Y	Y	Y	Y
74	LTE_ANT1/2 + BT_CH1_ANT6	Y	Y	Y	Y
75	LTE_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4	Y	Y	Y	Y



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76	LTE_ANT1/2+ WiFi2.4G AP_MIMO_ANT5&4	Y	Y	Y	Y
77	LTE_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
78	LTE_ANT1/2+ WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
79	LTE_ANT0/4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
80	LTE_ANT1/2 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
81	LTE_ANT0/4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
82	LTE_ANT1/2+ WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
83	LTE_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
84	LTE_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
85	LTE_ANT0/4 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
86	LTE_ANT1/2 + WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
87	LTE_ANT0/4 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
88	LTE_ANT1/2 + WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
89	LTE_ANT0/4+ BT CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
90	LTE_ANT1/2 + BT CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
91	LTE_ANT0/4 + BT CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
92	LTE_ANT1/2 + BT CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
93	LTE_ANT0/4 + BT CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
94	LTE_ANT1/2 + BT CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
95	LTE_ANT0/4 + BT CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
96	LTE_ANT1/2 + BT CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
97	WiFi2.4G STA_MIMO_ANT5&4	Y	Y	N	Y
98	WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
99	WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	N	Y
100	WiFi2.4G AP_MIMO_ANT5&4 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
101	WiFi2.4G STA_MIMO_ANT5&4 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
102	BT CH0_ANT5 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
103	BT CH1_ANT6 + WiFi5G STA_MIMO_ANT5&4	Y	Y	Y	Y
104	BT CH0_ANT5 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y
105	BT CH1_ANT6 + WiFi5G AP_MIMO_ANT5&4	Y	Y	Y	Y



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8.4.2 Simultaneous Transmission SAR Summation Scenario

Head Ant0:

Band	Exposure position	SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
		1	2	3	4	5						
		Ant0	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM850	Left Touch	0.182	0.671	0.376	0.444	0.371	0.853	0.558	0.626	0.553	1.002	0.929
	Left Tilt	0.112	0.739	0.376	0.290	0.255	0.851	0.488	0.402	0.367	0.778	0.743
	Right Touch	0.262	0.305	0.184	0.164	0.144	0.567	0.446	0.426	0.406	0.610	0.590
	Right Tilt	0.115	0.369	0.199	0.260	0.228	0.484	0.314	0.375	0.343	0.574	0.542
WCDMA Band V	Left Touch	0.230	0.671	0.376	0.444	0.371	0.901	0.606	0.674	0.601	1.050	0.977
	Left Tilt	0.142	0.739	0.376	0.290	0.255	0.881	0.518	0.432	0.397	0.808	0.773
	Right Touch	0.314	0.305	0.184	0.164	0.144	0.619	0.498	0.478	0.458	0.662	0.642
	Right Tilt	0.151	0.369	0.199	0.260	0.228	0.520	0.350	0.411	0.379	0.610	0.578
LTE Band 5	Left Touch	0.200	0.671	0.376	0.444	0.371	0.871	0.576	0.644	0.571	1.020	0.947
	Left Tilt	0.112	0.739	0.376	0.290	0.255	0.851	0.488	0.402	0.367	0.778	0.743
	Right Touch	0.253	0.305	0.184	0.164	0.144	0.558	0.437	0.417	0.397	0.601	0.581
	Right Tilt	0.124	0.369	0.199	0.260	0.228	0.493	0.323	0.384	0.352	0.583	0.551

Head Ant1:

Band	Exposure position	SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
		1	2	3	4	5						
		Ant1	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM850	Left Touch	0.605	0.671	0.376	0.444	0.371	1.276	0.981	1.049	0.976	1.425	1.352
	Left Tilt	0.093	0.739	0.376	0.290	0.255	0.832	0.469	0.383	0.348	0.759	0.724
	Right Touch	0.543	0.305	0.184	0.164	0.144	0.848	0.727	0.707	0.687	0.891	0.871
	Right Tilt	0.109	0.369	0.199	0.260	0.228	0.478	0.308	0.369	0.337	0.568	0.536
WCDMA Band V	Left Touch	0.754	0.671	0.376	0.444	0.371	1.425	1.130	1.198	1.125	1.574	1.501
	Left Tilt	0.101	0.739	0.376	0.290	0.255	0.840	0.477	0.391	0.356	0.767	0.732
	Right Touch	0.423	0.305	0.184	0.164	0.144	0.728	0.607	0.587	0.567	0.771	0.751
	Right Tilt	0.093	0.369	0.199	0.260	0.228	0.462	0.292	0.353	0.321	0.552	0.520
LTE Band 5	Left Touch	0.748	0.671	0.376	0.444	0.371	1.419	1.124	1.192	1.119	1.568	1.495
	Left Tilt	0.071	0.739	0.376	0.290	0.255	0.810	0.447	0.361	0.326	0.737	0.702
	Right Touch	0.364	0.305	0.184	0.164	0.144	0.669	0.548	0.528	0.508	0.712	0.692
	Right Tilt	0.071	0.369	0.199	0.260	0.228	0.440	0.270	0.331	0.299	0.530	0.498



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Head Ant2:

Band	Exposure position	SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
		1 Ant2	2 WiFi 2.4G MIMO	3 WiFi 5G MIMO	4 BT Ant5 (Chian0)	5 BT Ant6 (Chian1)						
GSM1900	Left Touch	0.059	0.671	0.376	0.444	0.371	0.730	0.435	0.503	0.430	0.879	0.806
	Left Tilt	0.066	0.739	0.376	0.290	0.255	0.805	0.442	0.356	0.321	0.732	0.697
	Right Touch	0.068	0.305	0.184	0.164	0.144	0.373	0.252	0.232	0.212	0.416	0.396
	Right Tilt	0.074	0.369	0.199	0.260	0.228	0.443	0.273	0.334	0.302	0.533	0.501
WCDMA Band II	Left Touch	0.177	0.671	0.376	0.444	0.371	0.848	0.553	0.621	0.548	0.997	0.924
	Left Tilt	0.151	0.739	0.376	0.290	0.255	0.890	0.527	0.441	0.406	0.817	0.782
	Right Touch	0.198	0.305	0.184	0.164	0.144	0.503	0.382	0.362	0.342	0.546	0.526
	Right Tilt	0.173	0.369	0.199	0.260	0.228	0.542	0.372	0.433	0.401	0.632	0.600
WCDMA Band IV	Left Touch	0.136	0.671	0.376	0.444	0.371	0.807	0.512	0.580	0.507	0.956	0.883
	Left Tilt	0.091	0.739	0.376	0.290	0.255	0.830	0.467	0.381	0.346	0.757	0.722
	Right Touch	0.249	0.305	0.184	0.164	0.144	0.554	0.433	0.413	0.393	0.597	0.577
	Right Tilt	0.088	0.369	0.199	0.260	0.228	0.457	0.287	0.348	0.316	0.547	0.515
LTE Band 2	Left Touch	0.088	0.671	0.376	0.444	0.371	0.759	0.464	0.532	0.459	0.908	0.835
	Left Tilt	0.068	0.739	0.376	0.290	0.255	0.807	0.444	0.358	0.323	0.734	0.699
	Right Touch	0.095	0.305	0.184	0.164	0.144	0.400	0.279	0.259	0.239	0.443	0.423
	Right Tilt	0.084	0.369	0.199	0.260	0.228	0.453	0.283	0.344	0.312	0.543	0.511
LTE Band 4	Left Touch	0.113	0.671	0.376	0.444	0.371	0.784	0.489	0.557	0.484	0.933	0.860
	Left Tilt	0.075	0.739	0.376	0.290	0.255	0.814	0.451	0.365	0.330	0.741	0.706
	Right Touch	0.163	0.305	0.184	0.164	0.144	0.468	0.347	0.327	0.307	0.511	0.491
	Right Tilt	0.078	0.369	0.199	0.260	0.228	0.447	0.277	0.338	0.306	0.537	0.505
LTE Band 7	Left Touch	0.153	0.671	0.376	0.444	0.371	0.824	0.529	0.597	0.524	0.973	0.900
	Left Tilt	0.041	0.739	0.376	0.290	0.255	0.780	0.417	0.331	0.296	0.707	0.672
	Right Touch	0.137	0.305	0.184	0.164	0.144	0.442	0.321	0.301	0.281	0.485	0.465
	Right Tilt	0.099	0.369	0.199	0.260	0.228	0.468	0.298	0.359	0.327	0.558	0.526
LTE Band 38	Left Touch	0.085	0.671	0.376	0.444	0.371	0.756	0.461	0.529	0.456	0.905	0.832
	Left Tilt	0.026	0.739	0.376	0.290	0.255	0.765	0.402	0.316	0.281	0.692	0.657
	Right Touch	0.081	0.305	0.184	0.164	0.144	0.386	0.265	0.245	0.225	0.429	0.409
	Right Tilt	0.070	0.369	0.199	0.260	0.228	0.439	0.269	0.330	0.298	0.529	0.497
LTE Band 41	Left Touch	0.081	0.671	0.376	0.444	0.371	0.752	0.457	0.525	0.452	0.901	0.828
	Left Tilt	0.027	0.739	0.376	0.290	0.255	0.766	0.403	0.317	0.282	0.693	0.658
	Right Touch	0.077	0.305	0.184	0.164	0.144	0.382	0.261	0.241	0.221	0.425	0.405
	Right Tilt	0.069	0.369	0.199	0.260	0.228	0.438	0.268	0.329	0.297	0.528	0.496



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Head Ant4:

Band	Exposure position	SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
		1	2	3	4	5						
		Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM1900	Left Touch	0.291	0.671	0.376	0.444	0.371	0.962	0.667	0.735	0.662	1.111	1.038
	Left Tilt	0.427	0.739	0.376	0.290	0.255	1.166	0.803	0.717	0.682	1.093	1.058
	Right Touch	0.716	0.305	0.184	0.164	0.144	1.021	0.900	0.880	0.860	1.064	1.044
	Right Tilt	0.546	0.369	0.199	0.260	0.228	0.915	0.745	0.806	0.774	1.005	0.973
WCDMA Band II	Left Touch	0.246	0.671	0.376	0.444	0.371	0.917	0.622	0.690	0.617	1.066	0.993
	Left Tilt	0.360	0.739	0.376	0.290	0.255	1.099	0.736	0.650	0.615	1.026	0.991
	Right Touch	0.682	0.305	0.184	0.164	0.144	0.987	0.866	0.846	0.826	1.030	1.010
	Right Tilt	0.522	0.369	0.199	0.260	0.228	0.891	0.721	0.782	0.750	0.981	0.949
WCDMA Band IV	Left Touch	0.186	0.671	0.376	0.444	0.371	0.857	0.562	0.630	0.557	1.006	0.933
	Left Tilt	0.302	0.739	0.376	0.290	0.255	1.041	0.678	0.592	0.557	0.968	0.933
	Right Touch	0.667	0.305	0.184	0.164	0.144	0.972	0.851	0.831	0.811	1.015	0.995
	Right Tilt	0.496	0.369	0.199	0.260	0.228	0.865	0.695	0.756	0.724	0.955	0.923
LTE Band 2	Left Touch	0.224	0.671	0.376	0.444	0.371	0.895	0.600	0.668	0.595	1.044	0.971
	Left Tilt	0.319	0.739	0.376	0.290	0.255	1.058	0.695	0.609	0.574	0.985	0.950
	Right Touch	0.729	0.305	0.184	0.164	0.144	1.034	0.913	0.893	0.873	1.077	1.057
	Right Tilt	0.591	0.369	0.199	0.260	0.228	0.960	0.790	0.851	0.819	1.050	1.018
LTE Band 4	Left Touch	0.299	0.671	0.376	0.444	0.371	0.970	0.675	0.743	0.670	1.119	1.046
	Left Tilt	0.395	0.739	0.376	0.290	0.255	1.134	0.771	0.685	0.650	1.061	1.026
	Right Touch	1.086	0.305	0.184	0.164	0.144	1.391	1.270	1.250	1.230	1.434	1.414
	Right Tilt	0.783	0.369	0.199	0.260	0.228	1.152	0.982	1.043	1.011	1.242	1.210
LTE Band 7	Left Touch	0.484	0.671	0.376	0.444	0.371	1.155	0.860	0.928	0.855	1.304	1.231
	Left Tilt	0.667	0.739	0.376	0.290	0.255	1.406	1.043	0.957	0.922	1.333	1.298
	Right Touch	1.037	0.305	0.184	0.164	0.144	1.342	1.221	1.201	1.181	1.385	1.365
	Right Tilt	0.982	0.369	0.199	0.260	0.228	1.351	1.181	1.242	1.210	1.441	1.409
LTE Band 38	Left Touch	0.450	0.671	0.376	0.444	0.371	1.121	0.826	0.894	0.821	1.270	1.197
	Left Tilt	0.586	0.739	0.376	0.290	0.255	1.325	0.962	0.876	0.841	1.252	1.217
	Right Touch	0.920	0.305	0.184	0.164	0.144	1.225	1.104	1.084	1.064	1.268	1.248
	Right Tilt	0.874	0.369	0.199	0.260	0.228	1.243	1.073	1.134	1.102	1.333	1.301
LTE Band 41	Left Touch	0.453	0.671	0.376	0.444	0.371	1.124	0.829	0.897	0.824	1.273	1.200
	Left Tilt	0.497	0.739	0.376	0.290	0.255	1.236	0.873	0.787	0.752	1.163	1.128
	Right Touch	1.090	0.305	0.184	0.164	0.144	1.395	1.274	1.254	1.234	1.438	1.418
	Right Tilt	0.929	0.369	0.199	0.260	0.228	1.298	1.128	1.189	1.157	1.388	1.356



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Body Ant0:

Band	Exposure position		SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
			1	2	3	4	5						
			Ant0	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM850	Body worn	Front	0.174	0.282	0.244	0.061	0.028	0.456	0.418	0.235	0.202	0.479	0.446
		Back	0.237	0.287	0.404	0.067	0.038	0.524	0.641	0.304	0.275	0.708	0.679
	Hotspot	Front	0.306	0.509	0.379	0.095	0.055	0.815	0.685	0.401	0.361	0.780	0.740
		Back	0.555	0.520	0.646	0.114	0.067	1.075	1.201	0.669	0.622	1.315	1.268
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	0.249	0.383	0.674	0.038	0.028	0.632	0.923	0.287	0.277	0.961	0.951
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.355	/	/	/	/	0.355	0.355	0.355	0.355	0.355	0.355
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
WCDMA Band V	Body worn	Front	0.251	0.282	0.244	0.061	0.028	0.533	0.495	0.312	0.279	0.556	0.523
		Back	0.359	0.287	0.404	0.067	0.038	0.646	0.763	0.426	0.397	0.830	0.801
	Hotspot	Front	0.470	0.509	0.379	0.095	0.055	0.979	0.849	0.565	0.525	0.944	0.904
		Back	0.738	0.520	0.646	0.114	0.067	1.258	1.384	0.852	0.805	1.498	1.451
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	0.406	0.383	0.674	0.038	0.028	0.789	1.080	0.444	0.434	1.118	1.108
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.537	/	/	/	/	0.537	0.537	0.537	0.537	0.537	0.537
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 5	Body worn	Front	0.201	0.282	0.244	0.061	0.028	0.483	0.445	0.262	0.229	0.506	0.473
		Back	0.307	0.287	0.404	0.067	0.038	0.594	0.711	0.374	0.345	0.778	0.749
	Hotspot	Front	0.376	0.509	0.379	0.095	0.055	0.885	0.755	0.471	0.431	0.850	0.810
		Back	0.611	0.520	0.646	0.114	0.067	1.131	1.257	0.725	0.678	1.371	1.324
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	0.335	0.383	0.674	0.038	0.028	0.718	1.009	0.373	0.363	1.047	1.037
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.433	/	/	/	/	0.433	0.433	0.433	0.433	0.433	0.433
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/

Body Ant1:

Band	Exposure position		SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
			1	2	3	4	5						
			Ant1	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM850	Body worn	Front	0.147	0.282	0.244	0.061	0.028	0.429	0.391	0.208	0.175	0.452	0.419
		Back	0.179	0.287	0.404	0.067	0.038	0.466	0.583	0.246	0.217	0.650	0.621
	Hotspot	Front	0.264	0.509	0.379	0.095	0.055	0.773	0.643	0.359	0.319	0.738	0.698
		Back	0.275	0.520	0.646	0.114	0.067	0.795	0.921	0.389	0.342	1.035	0.988
		Left	0.610	/	/	/	/	0.610	0.610	0.610	0.610	0.610	0.610
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
WCDMA Band V	Body worn	Front	0.218	0.282	0.244	0.061	0.028	0.500	0.462	0.279	0.246	0.523	0.490
		Back	0.196	0.287	0.404	0.067	0.038	0.483	0.600	0.263	0.234	0.667	0.638
	Hotspot	Front	0.356	0.509	0.379	0.095	0.055	0.865	0.735	0.451	0.411	0.830	0.790
		Back	0.322	0.520	0.646	0.114	0.067	0.842	0.968	0.436	0.389	1.082	1.035
		Left	0.722	/	/	/	/	0.722	0.722	0.722	0.722	0.722	0.722
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 5	Body worn	Front	0.185	0.282	0.244	0.061	0.028	0.467	0.429	0.246	0.213	0.490	0.457
		Back	0.167	0.287	0.404	0.067	0.038	0.454	0.571	0.234	0.205	0.638	0.609
	Hotspot	Front	0.307	0.509	0.379	0.095	0.055	0.816	0.686	0.402	0.362	0.781	0.741
		Back	0.290	0.520	0.646	0.114	0.067	0.810	0.936	0.404	0.357	1.050	1.003
		Left	0.608	/	/	/	/	0.608	0.608	0.608	0.608	0.608	0.608
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/



Body Ant2:

Band	Exposure position		SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
			1	2	3	4	5						
			Ant2	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM1900	Body worn	Front	0.131	0.282	0.244	0.061	0.028	0.413	0.375	0.192	0.159	0.436	0.403
		Back	0.185	0.287	0.404	0.067	0.038	0.472	0.589	0.252	0.223	0.656	0.627
	Hotspot	Front	0.246	0.509	0.379	0.095	0.055	0.755	0.625	0.341	0.301	0.720	0.680
		Back	0.262	0.520	0.646	0.114	0.067	0.782	0.908	0.376	0.329	1.022	0.975
		Left	0.141	/	/	/	/	0.141	0.141	0.141	0.141	0.141	0.141
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.509	/	/	/	/	0.509	0.509	0.509	0.509	0.509	0.509
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
WCDMA Band II	Body worn	Front	0.381	0.282	0.244	0.061	0.028	0.663	0.625	0.442	0.409	0.686	0.653
		Back	0.509	0.287	0.404	0.067	0.038	0.796	0.913	0.576	0.547	0.980	0.951
	Hotspot	Front	0.492	0.509	0.379	0.095	0.055	1.001	0.871	0.587	0.547	0.966	0.926
		Back	0.486	0.520	0.646	0.114	0.067	1.006	1.132	0.600	0.553	1.246	1.199
		Left	0.265	/	/	/	/	0.265	0.265	0.265	0.265	0.265	0.265
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.922	/	/	/	/	0.922	0.922	0.922	0.922	0.922	0.922
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	2.467	/	/	/	/	2.467	2.467	2.467	2.467	2.467	2.467
WCDMA Band IV	Body worn	Front	0.335	0.282	0.244	0.061	0.028	0.617	0.579	0.396	0.363	0.640	0.607
		Back	0.343	0.287	0.404	0.067	0.038	0.630	0.747	0.410	0.381	0.814	0.785
	Hotspot	Front	0.609	0.509	0.379	0.095	0.055	1.118	0.988	0.704	0.664	1.083	1.043
		Back	0.564	0.520	0.646	0.114	0.067	1.084	1.210	0.678	0.631	1.324	1.277
		Left	0.482	/	/	/	/	0.482	0.482	0.482	0.482	0.482	0.482
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.920	/	/	/	/	0.920	0.920	0.920	0.920	0.920	0.920
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/



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LTE Band 2	Body worn	Front	0.191	0.282	0.244	0.061	0.028	0.473	0.435	0.252	0.219	0.496	0.463
		Back	0.235	0.287	0.404	0.067	0.038	0.522	0.639	0.302	0.273	0.706	0.677
	Hotspot	Front	0.369	0.509	0.379	0.095	0.055	0.878	0.748	0.464	0.424	0.843	0.803
		Back	0.382	0.520	0.646	0.114	0.067	0.902	1.028	0.496	0.449	1.142	1.095
		Left	0.205	/	/	/	/	0.205	0.205	0.205	0.205	0.205	0.205
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.866	/	/	/	/	0.866	0.866	0.866	0.866	0.866	0.866
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 4	Body worn	Front	0.255	0.282	0.244	0.061	0.028	0.537	0.499	0.316	0.283	0.560	0.527
		Back	0.260	0.287	0.404	0.067	0.038	0.547	0.664	0.327	0.298	0.731	0.702
	Hotspot	Front	0.556	0.509	0.379	0.095	0.055	1.065	0.935	0.651	0.611	1.030	0.990
		Back	0.502	0.520	0.646	0.114	0.067	1.022	1.148	0.616	0.569	1.262	1.215
		Left	0.411	/	/	/	/	0.411	0.411	0.411	0.411	0.411	0.411
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.928	/	/	/	/	0.928	0.928	0.928	0.928	0.928	0.928
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 7	Body worn	Front	0.294	0.282	0.244	0.061	0.028	0.576	0.538	0.355	0.322	0.599	0.566
		Back	0.346	0.287	0.404	0.067	0.038	0.633	0.750	0.413	0.384	0.817	0.788
	Hotspot	Front	0.285	0.509	0.379	0.095	0.055	0.794	0.664	0.380	0.340	0.759	0.719
		Back	0.368	0.520	0.646	0.114	0.067	0.888	1.014	0.482	0.435	1.128	1.081
		Left	0.098	/	/	/	/	0.098	0.098	0.098	0.098	0.098	0.098
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.585	/	/	/	/	0.585	0.585	0.585	0.585	0.585	0.585
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 38	Body worn	Front	0.176	0.282	0.244	0.061	0.028	0.458	0.420	0.237	0.204	0.481	0.448
		Back	0.208	0.287	0.404	0.067	0.038	0.495	0.612	0.275	0.246	0.679	0.650
	Hotspot	Front	0.332	0.509	0.379	0.095	0.055	0.841	0.711	0.427	0.387	0.806	0.766
		Back	0.443	0.520	0.646	0.114	0.067	0.963	1.089	0.557	0.510	1.203	1.156
		Left	0.122	/	/	/	/	0.122	0.122	0.122	0.122	0.122	0.122
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.669	/	/	/	/	0.669	0.669	0.669	0.669	0.669	0.669
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 41	Body worn	Front	0.148	0.282	0.244	0.061	0.028	0.430	0.392	0.209	0.176	0.453	0.420
		Back	0.190	0.287	0.404	0.067	0.038	0.477	0.594	0.257	0.228	0.661	0.632
	Hotspot	Front	0.273	0.509	0.379	0.095	0.055	0.782	0.652	0.368	0.328	0.747	0.707
		Back	0.345	0.520	0.646	0.114	0.067	0.865	0.991	0.459	0.412	1.105	1.058
		Left	0.090	/	/	/	/	0.090	0.090	0.090	0.090	0.090	0.090
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	/	0.590	0.320	0.088	0.053	0.590	0.320	0.088	0.053	0.408	0.373
		Bottom	0.807	/	/	/	/	0.807	0.807	0.807	0.807	0.807	0.807
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/



Body Ant4:

Band	Exposure position		SARmax (W/kg)					Summed SAR (1+2)	Summed SAR (1+3)	Summed SAR (1+4)	Summed SAR (1+5)	Summed SAR (1+3+4)	Summed SAR (1+3+5)
			1	2	3	4	5						
			Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)						
GSM1900	Body worn	Front	0.061	0.282	0.244	0.061	0.028	0.343	0.305	0.122	0.089	0.366	0.333
		Back	0.195	0.287	0.404	0.067	0.038	0.482	0.599	0.262	0.233	0.666	0.637
	Hotspot	Front	0.102	0.509	0.379	0.095	0.055	0.611	0.481	0.197	0.157	0.576	0.536
		Back	0.089	0.520	0.646	0.114	0.067	0.609	0.735	0.203	0.156	0.849	0.802
		Left	0.093	/	/	/	/	0.093	0.093	0.093	0.093	0.093	0.093
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.274	0.590	0.320	0.088	0.053	0.864	0.594	0.362	0.327	0.682	0.647
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
WCDMA Band II	Body worn	Front	0.322	0.282	0.244	0.061	0.028	0.604	0.566	0.383	0.350	0.627	0.594
		Back	0.256	0.287	0.404	0.067	0.038	0.543	0.660	0.323	0.294	0.727	0.698
	Hotspot	Front	0.113	0.509	0.379	0.095	0.055	0.622	0.492	0.208	0.168	0.587	0.547
		Back	0.107	0.520	0.646	0.114	0.067	0.627	0.753	0.221	0.174	0.867	0.820
		Left	0.119	/	/	/	/	0.119	0.119	0.119	0.119	0.119	0.119
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.295	0.590	0.320	0.088	0.053	0.885	0.615	0.383	0.348	0.703	0.668
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
WCDMA Band IV	Body worn	Front	0.401	0.282	0.244	0.061	0.028	0.683	0.645	0.462	0.429	0.706	0.673
		Back	0.443	0.287	0.404	0.067	0.038	0.730	0.847	0.510	0.481	0.914	0.885
	Hotspot	Front	0.132	0.509	0.379	0.095	0.055	0.641	0.511	0.227	0.187	0.606	0.566
		Back	0.151	0.520	0.646	0.114	0.067	0.671	0.797	0.265	0.218	0.911	0.864
		Left	0.104	/	/	/	/	0.104	0.104	0.104	0.104	0.104	0.104
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.214	0.590	0.320	0.088	0.053	0.804	0.534	0.302	0.267	0.622	0.587
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/

LTE Band 2	Body worn	Front	0.191	0.282	0.244	0.061	0.028	0.473	0.435	0.252	0.219	0.496	0.463
		Back	0.306	0.287	0.404	0.067	0.038	0.593	0.710	0.373	0.344	0.777	0.748
	Hotspot	Front	0.109	0.509	0.379	0.095	0.055	0.618	0.488	0.204	0.164	0.583	0.543
		Back	0.112	0.520	0.646	0.114	0.067	0.632	0.758	0.226	0.179	0.872	0.825
		Left	0.121	/	/	/	/	0.121	0.121	0.121	0.121	0.121	0.121
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.289	0.590	0.320	0.088	0.053	0.879	0.609	0.377	0.342	0.697	0.662
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 4	Body worn	Front	0.340	0.282	0.244	0.061	0.028	0.622	0.584	0.401	0.368	0.645	0.612
		Back	0.433	0.287	0.404	0.067	0.038	0.720	0.837	0.500	0.471	0.904	0.875
	Hotspot	Front	0.167	0.509	0.379	0.095	0.055	0.676	0.546	0.262	0.222	0.641	0.601
		Back	0.188	0.520	0.646	0.114	0.067	0.708	0.834	0.302	0.255	0.948	0.901
		Left	0.129	/	/	/	/	0.129	0.129	0.129	0.129	0.129	0.129
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.289	0.590	0.320	0.088	0.053	0.879	0.609	0.377	0.342	0.697	0.662
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 7	Body worn	Front	0.200	0.282	0.244	0.061	0.028	0.482	0.444	0.261	0.228	0.505	0.472
		Back	0.196	0.287	0.404	0.067	0.038	0.483	0.600	0.263	0.234	0.667	0.638
	Hotspot	Front	0.187	0.509	0.379	0.095	0.055	0.696	0.566	0.282	0.242	0.661	0.621
		Back	0.172	0.520	0.646	0.114	0.067	0.692	0.818	0.286	0.239	0.932	0.885
		Left	0.108	/	/	/	/	0.108	0.108	0.108	0.108	0.108	0.108
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.431	0.590	0.320	0.088	0.053	1.021	0.751	0.519	0.484	0.839	0.804
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 38	Body worn	Front	0.195	0.282	0.244	0.061	0.028	0.477	0.439	0.256	0.223	0.500	0.467
		Back	0.193	0.287	0.404	0.067	0.038	0.480	0.597	0.260	0.231	0.664	0.635
	Hotspot	Front	0.174	0.509	0.379	0.095	0.055	0.683	0.553	0.269	0.229	0.648	0.608
		Back	0.152	0.520	0.646	0.114	0.067	0.672	0.798	0.266	0.219	0.912	0.865
		Left	0.114	/	/	/	/	0.114	0.114	0.114	0.114	0.114	0.114
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.402	0.590	0.320	0.088	0.053	0.992	0.722	0.490	0.455	0.810	0.775
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/
LTE Band 41	Body worn	Front	0.163	0.282	0.244	0.061	0.028	0.445	0.407	0.224	0.191	0.468	0.435
		Back	0.161	0.287	0.404	0.067	0.038	0.448	0.565	0.228	0.199	0.632	0.603
	Hotspot	Front	0.183	0.509	0.379	0.095	0.055	0.692	0.562	0.278	0.238	0.657	0.617
		Back	0.164	0.520	0.646	0.114	0.067	0.684	0.810	0.278	0.231	0.924	0.877
		Left	0.102	/	/	/	/	0.102	0.102	0.102	0.102	0.102	0.102
		Right	/	0.383	0.674	0.038	0.028	0.383	0.674	0.038	0.028	0.712	0.702
		Top	0.328	0.590	0.320	0.088	0.053	0.918	0.648	0.416	0.381	0.736	0.701
		Bottom	/	/	/	/	/	/	/	/	/	/	/
	Product specific 10g SAR	Front	/	/	1.530	/	/	/	1.530	/	/	1.530	1.530
		Back	/	/	1.433	/	/	/	1.433	/	/	1.433	1.433
		Left	/	/	/	/	/	/	/	/	/	/	/
		Right	/	/	2.339	/	/	/	2.339	/	/	2.339	2.339
		Top	/	/	1.421	/	/	/	1.421	/	/	1.421	1.421
		Bottom	/	/	/	/	/	/	/	/	/	/	/

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Simultaneous Transmission SAR Summation Scenario for WLAN Head:

Exposure position	SARmax (W/kg)				Summed SAR (3+4)	Summed SAR (3+5)
	2	3	4	5		
	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)		
Left Touch	0.671	0.376	0.444	0.371	0.820	0.747
Left Tilt	0.739	0.376	0.290	0.255	0.666	0.631
Right Touch	0.305	0.184	0.164	0.144	0.348	0.328
Right Tilt	0.369	0.199	0.260	0.228	0.459	0.427

Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Exposure position		SARmax (W/kg)				Summed SAR (3+4)	Summed SAR (3+5)
		2	3	4	5		
		WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant5 (Chian0)	BT Ant6 (Chian1)		
Body worn	Front	0.282	0.244	0.061	0.028	0.305	0.272
	Back	0.287	0.404	0.067	0.038	0.471	0.442
Hotspot	Front	0.509	0.379	0.095	0.055	0.474	0.434
	Back	0.520	0.646	0.114	0.067	0.760	0.713
	Left	/	/	/	/	/	/
	Right	0.383	0.674	0.038	0.028	0.712	0.702
	Top	0.590	0.320	0.088	0.053	0.408	0.373
	Bottom	/	/	/	/	/	/
Product specific 10g SAR	Front	/	1.530	/	/	1.530	1.530
	Back	/	1.433	/	/	1.433	1.433
	Left	/	/	/	/	/	/
	Right	/	2.339	/	/	2.339	2.339
	Top	/	1.421	/	/	1.421	1.421
	Bottom	/	/	/	/	/	/



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9 Supplemental Tuner Tests Results

1. According to TCBC workshop April 2019. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.

2. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band (Down Antenna) are divided evenly among band (Down Antenna(Ant0) GSM850,WCDMA B5, LTE B5), mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 144 tuner states.

3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.



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9.1 Supplemental SAR Results

Head SAR Data					
GSM850 Ant0		WCDMA Band V Ant0		LTE Band 5 Ant0	
GSM		RMC		QPSK 10MHz 1RB_0	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek
Test ch./Freq.	190/836.6	Test ch./Freq.	4182/836.4	Test ch./Freq.	20600/844
Measured 1g SAR (W/kg)	0.199	Measured 1g SAR (W/kg)	0.212	Measured 1g SAR (W/kg)	0.190
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 41)	0.116	Auto-tune (State 56)	0.130	Auto-tune (State 52)	0.130
State 1	0.046	State 1	0.067	State 1	0.064
State 2	0.107	State 2	0.041	State 2	0.117
State 3	0.048	State 3	0.101	State 3	0.063
State 4	0.053	State 4	0.078	State 4	0.105
State 5	0.107	State 5	0.050	State 5	0.113
State 6	0.056	State 6	0.059	State 6	0.050
State 7	0.040	State 7	0.100	State 7	0.072
State 8	0.091	State 8	0.057	State 8	0.072
State 9	0.072	State 9	0.064	State 9	0.054
State 10	0.048	State 10	0.053	State 10	0.053
State 11	0.048	State 11	0.052	State 11	0.072
State 12	0.108	State 12	0.120	State 12	0.058
State 13	0.044	State 13	0.092	State 13	0.065
State 14	0.078	State 14	0.044	State 14	0.106
State 15	0.049	State 15	0.110	State 15	0.061
State 16	0.054	State 16	0.043	State 16	0.061
State 17	0.099	State 17	0.058	State 17	0.073
State 18	0.069	State 18	0.072	State 18	0.054
State 19	0.042	State 19	0.117	State 19	0.091
State 20	0.086	State 20	0.038	State 20	0.111
State 21	0.069	State 21	0.052	State 21	0.049
State 22	0.065	State 22	0.077	State 22	0.072
State 23	0.058	State 23	0.046	State 23	0.072
State 24	0.044	State 24	0.094	State 24	0.046
State 25	0.039	State 25	0.088	State 25	0.086
State 26	0.098	State 26	0.045	State 26	0.085
State 27	0.101	State 27	0.048	State 27	0.049
State 28	0.039	State 28	0.048	State 28	0.118
State 29	0.075	State 29	0.046	State 29	0.117
State 30	0.092	State 30	0.100	State 30	0.053
State 31	0.040	State 31	0.066	State 31	0.115
State 32	0.068	State 32	0.026	State 32	0.083
State 33	0.108	State 33	0.112	State 33	0.058
State 34	0.072	State 34	0.074	State 34	0.077
State 35	0.062	State 35	0.041	State 35	0.107
State 36	0.104	State 36	0.100	State 36	0.059
State 37	0.081	State 37	0.117	State 37	0.119
State 38	0.093	State 38	0.045	State 38	0.072
State 39	0.059	State 39	0.070	State 39	0.059
State 40	0.079	State 40	0.077	State 40	0.050
State 41	0.113	State 41	0.032	State 41	0.059
State 42	0.052	State 42	0.078	State 42	0.052
State 43	0.044	State 43	0.118	State 43	0.117
State 44	0.105	State 44	0.113	State 44	0.081
State 45	0.075	State 45	0.097	State 45	0.102
State 46	0.067	State 46	0.050	State 46	0.102
State 47	0.099	State 47	0.101	State 47	0.091
State 48	0.085	State 48	0.117	State 48	0.109
State 49	0.069	State 49	0.042	State 49	0.068
State 50	0.070	State 50	0.101	State 50	0.087
State 51	0.067	State 51	0.102	State 51	0.103



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State 52	0.077	State 52	0.068	State 52	0.128
State 53	0.061	State 53	0.101	State 53	0.084
State 54	0.090	State 54	0.044	State 54	0.103
State 55	0.053	State 55	0.051	State 55	0.087
State 56	0.044	State 56	0.126	State 56	0.050
State 57	0.047	State 57	0.118	State 57	0.110
State 58	0.081	State 58	0.110	State 58	0.089
State 59	0.074	State 59	0.119	State 59	0.114
State 60	0.061	State 60	0.070	State 60	0.111
State 61	0.038	State 61	0.042	State 61	0.111
State 62	0.071	State 62	0.092	State 62	0.057
State 63	0.102	State 63	0.068	State 63	0.087
State 64	0.083	State 64	0.104	State 64	0.069
State 65	0.097	State 65	0.114	State 65	0.101
State 66	0.057	State 66	0.056	State 66	0.115
State 67	0.070	State 67	0.103	State 67	0.060
State 68	0.048	State 68	0.106	State 68	0.059
State 69	0.047	State 69	0.091	State 69	0.087
State 70	0.058	State 70	0.043	State 70	0.112
State 71	0.046	State 71	0.116	State 71	0.094
State 72	0.040	State 72	0.062	State 72	0.087
State 73	0.051	State 73	0.074	State 73	0.072
State 74	0.097	State 74	0.122	State 74	0.080
State 75	0.095	State 75	0.112	State 75	0.120
State 76	0.047	State 76	0.106	State 76	0.109
State 77	0.071	State 77	0.079	State 77	0.108
State 78	0.053	State 78	0.081	State 78	0.077
State 79	0.070	State 79	0.110	State 79	0.111
State 80	0.085	State 80	0.052	State 80	0.110
State 81	0.078	State 81	0.060	State 81	0.080
State 82	0.040	State 82	0.070	State 82	0.065
State 83	0.051	State 83	0.071	State 83	0.084
State 84	0.053	State 84	0.111	State 84	0.046
State 85	0.075	State 85	0.065	State 85	0.115
State 86	0.096	State 86	0.058	State 86	0.117
State 87	0.047	State 87	0.089	State 87	0.056
State 88	0.082	State 88	0.076	State 88	0.115
State 89	0.103	State 89	0.052	State 89	0.085
State 90	0.100	State 90	0.099	State 90	0.073
State 91	0.076	State 91	0.107	State 91	0.095
State 92	0.060	State 92	0.059	State 92	0.053
State 93	0.090	State 93	0.062	State 93	0.053
State 94	0.069	State 94	0.111	State 94	0.065
State 95	0.094	State 95	0.050	State 95	0.103
State 96	0.042	State 96	0.073	State 96	0.075
State 97	0.084	State 97	0.054	State 97	0.050
State 98	0.085	State 98	0.081	State 98	0.108
State 99	0.106	State 99	0.116	State 99	0.076
State 100	0.043	State 100	0.043	State 100	0.053
State 101	0.040	State 101	0.055	State 101	0.062
State 102	0.103	State 102	0.057	State 102	0.078
State 103	0.052	State 103	0.084	State 103	0.110
State 104	0.106	State 104	0.044	State 104	0.094
State 105	0.104	State 105	0.117	State 105	0.058
State 106	0.070	State 106	0.086	State 106	0.068
State 107	0.086	State 107	0.072	State 107	0.105
State 108	0.054	State 108	0.107	State 108	0.054
State 109	0.064	State 109	0.078	State 109	0.055
State 110	0.066	State 110	0.019	State 110	0.081
State 111	0.054	State 111	0.056	State 111	0.061
State 112	0.077	State 112	0.055	State 112	0.073
State 113	0.077	State 113	0.021	State 113	0.085
State 114	0.100	State 114	0.120	State 114	0.072
State 115	0.064	State 115	0.065	State 115	0.094



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State 116	0.100	State 116	0.017	State 116	0.083
State 117	0.058	State 117	0.070	State 117	0.073
State 118	0.058	State 118	0.060	State 118	0.052
State 119	0.070	State 119	0.016	State 119	0.089
State 120	0.064	State 120	0.110	State 120	0.070
State 121	0.056	State 121	0.055	State 121	0.103
State 122	0.101	State 122	0.017	State 122	0.069
State 123	0.066	State 123	0.118	State 123	0.064
State 124	0.061	State 124	0.098	State 124	0.079
State 125	0.082	State 125	0.018	State 125	0.052
State 126	0.074	State 126	0.046	State 126	0.044
State 127	0.072	State 127	0.076	State 127	0.088
State 128	0.075	State 128	0.017	State 128	0.056
State 129	0.079	State 129	0.119	State 129	0.046
State 130	0.024	State 130	0.063	State 130	0.075
State 131	0.069	State 131	0.020	State 131	0.098
State 132	0.064	State 132	0.086	State 132	0.047
State 133	0.061	State 133	0.098	State 133	0.068
State 134	0.073	State 134	0.020	State 134	0.113
State 135	0.056	State 135	0.119	State 135	0.053
State 136	0.059	State 136	0.115	State 136	0.079
State 137	0.069	State 137	0.018	State 137	0.075
State 138	0.100	State 138	0.116	State 138	0.049
State 139	0.047	State 139	0.042	State 139	0.085
State 140	0.059	State 140	0.018	State 140	0.050
State 141	0.050	State 141	0.063	State 141	0.071
State 142	0.083	State 142	0.055	State 142	0.060
State 143	0.056	State 143	0.029	State 143	0.094
State 144	0.059	State 144	0.100	State 144	0.094

Body worn SAR Data					
GSM850 Ant0		WCDMA Band V Ant0		LTE Band 5 Ant0	
GSM		RMC		QPSK 10MHz 1RB_0	
Test Position	Back side 15mm	Test Position	Back side 15mm	Test Position	Back side 15mm
Test ch./Freq.	190/836.6	Test ch./Freq.	4182/836.4	Test ch./Freq.	20600/844
Measured 1g SAR (W/kg)	0.180	Measured 1g SAR (W/kg)	0.242	Measured 1g SAR (W/kg)	0.230
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 37)	0.147	Auto-tune (State 55)	0.202	Auto-tune (State 30)	0.192
State 1	0.123	State 1	0.062	State 1	0.069
State 2	0.111	State 2	0.094	State 2	0.172
State 3	0.130	State 3	0.099	State 3	0.135
State 4	0.099	State 4	0.074	State 4	0.047
State 5	0.090	State 5	0.167	State 5	0.136
State 6	0.090	State 6	0.100	State 6	0.171
State 7	0.105	State 7	0.065	State 7	0.044
State 8	0.120	State 8	0.123	State 8	0.175
State 9	0.050	State 9	0.126	State 9	0.125
State 10	0.121	State 10	0.045	State 10	0.059
State 11	0.090	State 11	0.058	State 11	0.149
State 12	0.080	State 12	0.072	State 12	0.122
State 13	0.132	State 13	0.061	State 13	0.077
State 14	0.110	State 14	0.137	State 14	0.167
State 15	0.050	State 15	0.065	State 15	0.121
State 16	0.117	State 16	0.069	State 16	0.081
State 17	0.100	State 17	0.139	State 17	0.061
State 18	0.070	State 18	0.085	State 18	0.067
State 19	0.126	State 19	0.050	State 19	0.055
State 20	0.100	State 20	0.056	State 20	0.163
State 21	0.050	State 21	0.114	State 21	0.176
State 22	0.112	State 22	0.062	State 22	0.074
State 23	0.050	State 23	0.079	State 23	0.116



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