



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132072	132322	132572	
20MHz	16QAM	1	0	20.09	19.95	19.79	20.80
		1	38	20.14	20.15	20.35	20.80
		1	74	20.18	20.14	19.92	20.80
		36	0	20.25	20.30	20.26	20.80
		36	18	20.46	20.25	20.30	20.80
		36	39	20.36	20.27	20.41	20.80
		75	0	20.44	20.35	20.11	20.80
20MHz	QPSK	1	0	20.26	20.21	20.27	20.80
		1	50	20.08	20.28	20.2	20.80
		1	99	19.91	20.00	20.17	20.80
		50	0	20.18	20.14	20.18	20.80
		50	25	20.14	20.25	20.05	20.80
		50	50	20.24	20.21	20.21	20.80
		100	0	20.24	20.19	20.27	20.80
	16QAM	1	0	19.99	20.02	19.82	20.80
		1	50	20.35	20.19	20.39	20.80
		1	99	20.33	20.13	19.99	20.80
		50	0	20.25	20.29	20.35	20.80
		50	25	20.47	20.42	20.39	20.80
		50	50	20.23	20.32	20.42	20.80
		100	0	20.41	20.25	20.07	20.80

LTE Band 66 receiver off + WIFI/BT				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	21.17	21.19	21.08	21.80
		1	2	20.81	21.00	20.90	21.80
		1	5	20.91	21.00	21.12	21.80
		3	0	21.11	21.11	21.08	21.80
		3	1	21.06	21.01	20.92	21.80
		3	3	20.80	20.89	20.84	21.80
		6	0	20.86	21.13	21.01	21.80
	16QAM	1	0	21.20	21.16	21.05	21.80
		1	2	21.03	21.12	21.03	21.80
		1	5	20.81	20.73	20.80	21.80
		3	0	20.90	20.84	20.76	21.80
		3	1	20.85	20.38	20.17	21.80
		3	3	20.34	20.62	20.61	21.80



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Bandwidth	Modulation	RB size	RB offset	6	0	20.68	20.64	20.84	21.30
				Channel	Channel	Channel	Tune up		
				131987	132322	132657			
3MHz	QPSK	1	0	21.23	21.21	21.18		21.80	
		1	7	20.83	20.86	20.84		21.80	
		1	14	20.97	20.96	20.95		21.80	
		8	0	21.07	21.18	21.2		21.80	
		8	4	21.04	21.02	20.94		21.80	
		8	7	20.83	20.86	20.91		21.80	
		15	0	20.99	20.92	20.98		21.80	
	16QAM	1	0	21.15	21.03	21.17		21.80	
		1	7	21.18	20.84	21.1		21.80	
		1	14	20.87	20.8	20.68		21.80	
		8	0	20.58	20.25	20.52		21.30	
		8	4	20.41	20.20	20.24		21.30	
		8	7	20.36	20.14	20.42		21.30	
		15	0	20.45	20.46	20.22		21.30	
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up		
				Channel	Channel	Channel			
5MHz	QPSK	1	0	21.16	21.15	21.09	21.80		
		1	13	20.8	21.03	20.87	21.80		
		1	24	20.87	20.98	20.95	21.80		
		12	0	21.24	21.35	21.25	21.80		
		12	6	21.01	21.19	21.08	21.80		
		12	13	20.91	20.93	21.02	21.80		
		25	0	20.98	21	21.03	21.80		
	16QAM	1	0	21.29	21.26	21.2	21.80		
		1	13	21.07	21.25	21.12	21.80		
		1	24	20.81	20.89	20.75	21.80		
		12	0	20.40	20.22	20.44	21.30		
		12	6	20.57	20.38	20.37	21.30		
		12	13	20.33	20.22	20.45	21.30		
		25	0	20.43	20.50	20.21	21.30		
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up		
				Channel	Channel	Channel			
10MHz	QPSK	1	0	21.1	21.35	21.31	21.80		
		1	25	20.95	21.12	20.93	21.80		
		1	49	20.97	20.97	20.94	21.80		
		25	0	21.17	21.22	21.22	21.80		
		25	13	21.16	21.22	21.04	21.80		
		25	25	20.82	20.77	20.94	21.80		
		50	0	20.85	20.96	21.02	21.80		



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	16QAM	1	0	21.14	21.14	21.09	21.80
		1	25	21.14	21.18	21.23	21.80
		1	49	20.73	20.73	20.78	21.80
		25	0	20.44	20.04	20.30	21.30
		25	13	20.42	20.20	20.23	21.30
		25	25	20.33	20.10	20.37	21.30
		50	0	20.35	20.38	20.13	21.30
15MHz	QPSK	1	0	21.31	21.25	21.24	21.80
		1	38	21.08	21.2	21.02	21.80
		1	74	20.94	20.96	21.13	21.80
		36	0	21.07	21.23	21.18	21.80
		36	18	21.16	21.18	21.02	21.80
		36	39	20.75	21.02	20.96	21.80
		75	0	20.95	21.02	21.17	21.80
	16QAM	1	0	21.11	21.1	21.12	21.80
		1	38	21.08	21.1	21.03	21.80
		1	74	20.82	20.91	20.8	21.80
		36	0	20.31	20.18	20.42	21.30
		36	18	20.57	20.38	20.39	21.30
		36	39	20.40	20.29	20.54	21.30
		75	0	20.56	20.55	20.28	21.30
20MHz	QPSK	1	0	21.08	21.15	21.13	21.80
		1	50	20.96	21.05	21.04	21.80
		1	99	20.87	20.89	20.96	21.80
		50	0	21.14	21.20	21.21	21.80
		50	25	21.12	21.14	21.05	21.80
		50	50	20.7	20.80	20.83	21.80
		100	0	20.88	20.96	21.03	21.80
	16QAM	1	0	21.23	21.23	21.15	21.80
		1	50	21.03	21.05	21.07	21.80
		1	99	20.84	20.86	20.83	21.80
		50	0	20.32	20.50	20.40	21.30
		50	25	20.25	20.38	20.28	21.30
		50	50	20.36	20.39	20.44	21.30
		100	0	20.27	20.66	20.36	21.30



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ANT2

LTE Band 2 receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	19.32	19.08	19.16	20.50
		1	2	19.06	19.04	18.90	20.50
		1	5	19.01	19.17	19.14	20.50
		3	0	19.15	19.19	19.14	20.50
		3	2	19.18	19.15	19.21	20.50
		3	3	19.03	18.98	19.08	20.50
	16QAM	6	0	19.20	19.07	19.17	20.50
		1	0	19.64	19.34	19.39	20.50
		1	2	19.09	19.67	19.56	20.50
		1	5	19.52	19.23	19.14	20.50
		3	0	19.14	19.13	19.06	20.50
		3	2	19.23	19.09	19.25	20.50
		3	3	19.02	19.09	18.98	20.50
		6	0	19.17	19.08	18.97	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	19.28	19.01	19.18	20.50
		1	7	19.04	18.94	18.98	20.50
		1	14	19.00	19.00	19.13	20.50
		8	0	19.26	19.02	19.16	20.50
		8	4	19.01	19.07	19.18	20.50
		8	7	19.02	18.99	19.07	20.50
		15	0	19.12	18.91	19.15	20.50
	16QAM	1	0	19.63	19.48	19.31	20.50
		1	7	19.12	19.77	19.49	20.50
		1	14	19.42	19.38	19.14	20.50
		8	0	19.19	19.23	19.18	20.50
		8	4	19.11	19.07	19.12	20.50
		8	7	18.98	19.01	19.17	20.50
		15	0	19.02	19.09	19.04	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	19.33	19.07	19.08	20.50
		1	13	19.03	18.99	18.89	20.50
		1	24	19.03	19.07	19.04	20.50
		12	0	19.16	19.10	19.12	20.50
		12	6	19.09	19.11	19.13	20.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	16QAM	12	13	19.01	18.98	19.03	20.50
		25	0	19.14	18.99	19.13	20.50
		1	0	19.66	19.39	19.39	20.50
		1	13	19.18	19.70	19.53	20.50
		1	24	19.43	19.32	19.17	20.50
		12	0	19.23	19.14	19.08	20.50
		12	6	19.17	19.02	19.16	20.50
		12	13	19.00	19.02	19.08	20.50
10MHz	QPSK	1	0	19.53	19.24	19.05	20.50
		1	25	19.11	18.96	19.13	20.50
		1	49	19.25	19.15	19.01	20.50
		25	0	19.30	19.11	19.14	20.50
		25	13	19.07	19.08	19.05	20.50
		25	25	19.20	19.08	19.24	20.50
	16QAM	50	0	19.25	19.06	19.20	20.50
		1	0	19.80	19.47	19.53	20.50
		1	25	18.93	19.74	19.59	20.50
		1	49	19.18	19.87	18.89	20.50
		25	0	19.19	19.20	19.06	20.50
		25	13	19.14	19.00	19.01	20.50
15MHz	QPSK	25	25	19.08	19.08	19.08	20.50
		50	0	19.09	19.12	19.04	20.50
		1	0	18.87	19.45	18.99	20.50
		1	38	19.22	19.25	18.93	20.50
		1	74	19.20	19.08	19.00	20.50
		36	0	18.81	18.99	18.91	20.50
	16QAM	36	18	19.09	19.06	18.88	20.50
		36	39	19.01	18.94	19.07	20.50
		75	0	18.99	18.97	18.93	20.50
		1	0	19.44	18.87	18.86	20.50
		1	38	19.34	19.05	19.19	20.50
		1	74	18.98	18.89	18.87	20.50
15MHz	16QAM	36	0	18.81	18.80	18.88	20.50
		36	18	18.90	19.06	18.84	20.50
		36	39	19.05	19.04	18.91	20.50
		75	0	18.97	19.03	18.99	20.50
		Channel	Channel	Channel	Tune up		
		18675	18900	19125			



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				18700	18900	19100	
20MHz	QPSK	1	0	19.25	19.26	19.24	20.50
		1	50	19.16	19.05	18.93	20.50
		1	99	18.88	18.90	19.00	20.50
		50	0	19.22	19.30	19.02	20.50
		50	25	19.29	19.15	19.13	20.50
		50	50	19.07	19.02	19.11	20.50
		100	0	19.34	19.18	19.33	20.50
	16QAM	1	0	19.12	19.56	19.41	20.50
		1	50	19.46	19.17	19.19	20.50
		1	99	18.91	19.40	19.44	20.50
		50	0	19.37	19.07	19.13	20.50
		50	25	19.30	19.17	19.14	20.50
		50	50	19.06	18.87	19.21	20.50
		100	0	19.33	19.08	18.95	20.50

LTE Band 2 receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	19.79	19.53	19.49	21.00
		1	2	19.79	19.61	19.54	21.00
		1	5	19.70	19.52	19.47	21.00
		3	0	19.72	19.54	19.50	21.00
		3	2	19.74	19.63	19.54	21.00
		3	3	19.71	19.53	19.50	21.00
		6	0	19.64	19.52	19.47	21.00
	16QAM	1	0	20.01	19.83	19.86	21.00
		1	2	20.04	19.92	19.88	21.00
		1	5	19.97	19.80	19.88	21.00
		3	0	19.74	19.62	19.57	21.00
		3	2	19.75	19.67	19.55	21.00
		3	3	19.66	19.58	19.50	21.00
		6	0	19.70	19.59	19.61	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	19.80	19.56	19.54	21.00
		1	7	19.72	19.59	19.62	21.00
		1	14	19.63	19.61	19.51	21.00
		8	0	19.70	19.60	19.55	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	16QAM	8	4	19.71	19.59	19.57	21.00
		8	7	19.68	19.55	19.52	21.00
		15	0	19.70	19.59	19.55	21.00
		1	0	20.12	19.92	19.87	21.00
		1	7	20.03	19.98	20.01	21.00
	QPSK	1	14	19.96	19.92	19.86	21.00
		8	0	19.74	19.66	19.59	21.00
		8	4	19.74	19.65	19.62	21.00
		8	7	19.72	19.61	19.56	21.00
		15	0	19.70	19.59	19.55	21.00
10MHz	16QAM	1	0	20.02	19.72	19.67	21.00
		1	25	19.69	19.61	19.56	21.00
		1	49	19.76	19.71	19.66	21.00
		25	0	19.86	19.65	19.63	21.00
		25	13	19.76	19.66	19.66	21.00
		25	25	19.81	19.71	19.65	21.00
	QPSK	50	0	19.82	19.62	19.69	21.00
		1	0	20.23	20.07	19.98	21.00
		1	25	20.04	19.96	19.92	21.00
		1	49	20.07	20.05	19.89	21.00
		25	0	19.87	19.66	19.62	21.00
		25	13	19.75	19.65	19.63	21.00
		25	25	19.79	19.68	19.62	21.00
16QAM	50	0	19.83	19.64	19.69	21.00	



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	19.45	19.68	19.67	21.00
		1	38	19.79	19.72	19.65	21.00
		1	74	19.74	19.77	19.71	21.00
		36	0	19.51	19.39	19.31	21.00
		36	18	19.72	19.66	19.57	21.00
		36	39	19.67	19.64	19.66	21.00
		75	0	19.64	19.57	19.57	21.00
	16QAM	1	0	19.78	19.58	19.49	21.00
		1	38	20.13	20.08	19.98	21.00
		1	74	20.03	20.11	19.96	21.00
		36	0	19.54	19.36	19.37	21.00
		36	18	19.80	19.68	19.36	21.00
		36	39	19.67	19.67	19.62	21.00
		75	0	19.68	19.58	19.63	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	20.01	20.02	19.85	21.00
		1	50	19.84	19.62	19.53	21.00
		1	99	19.34	19.44	19.33	21.00
		50	0	20.03	20.04	19.72	21.00
		50	25	19.92	19.76	19.71	21.00
		50	50	19.66	19.64	19.65	21.00
		100	0	19.92	19.79	19.78	21.00
	16QAM	1	0	20.55	20.40	20.20	21.00
		1	50	20.26	20.08	20.02	21.00
		1	99	19.69	19.63	19.58	21.00
		50	0	20.05	19.78	19.72	21.00
		50	25	19.93	19.78	19.73	21.00
		50	50	19.65	19.63	19.70	21.00
		100	0	19.90	19.77	19.71	21.00

LTE Band 2 hotspot/receiver off +WIFI/BT				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	18.64	18.40	18.23	19.50
		1	2	18.29	18.10	17.97	19.50
		1	5	18.88	18.87	18.82	19.50
		3	0	18.51	18.26	18.17	19.50
		3	2	18.35	18.20	18.15	19.50



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		3	3	18.13	18.09	18.11	19.50
		6	0	18.34	18.23	18.22	19.50
	16QAM	1	0	18.63	18.86	18.65	19.50
		1	2	18.73	18.61	18.49	19.50
		1	5	18.16	18.15	18.14	19.50
		3	0	18.50	18.13	18.17	19.50
		3	2	18.35	18.13	18.15	19.50
		3	3	18.13	18.07	18.08	19.50
		6	0	18.32	18.18	18.13	19.50
Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
	18615				18900	19185	
3MHz	QPSK	1	0	18.26	18.05	18.02	19.50
		1	7	18.58	18.53	18.39	19.50
		1	14	18.41	18.59	18.57	19.50
		8	0	18.24	18.17	18.09	19.50
		8	4	18.46	18.46	18.31	19.50
		8	7	18.46	18.44	18.42	19.50
	16QAM	15	0	18.39	18.32	18.34	19.50
		1	0	18.31	18.18	18.10	19.50
		1	7	18.44	18.56	18.55	19.50
		1	14	18.53	18.43	18.56	19.50
		8	0	17.94	17.86	17.89	19.50
		8	4	18.14	18.13	18.02	19.50
		8	7	18.17	18.12	18.05	19.50
		15	0	18.10	18.07	18.11	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	18.60	18.50	18.50	19.50
		1	13	18.49	18.38	18.34	19.50
		1	24	18.56	18.50	18.49	19.50
		12	0	18.66	18.47	18.44	19.50
		12	6	18.55	18.45	18.44	19.50
		12	13	18.59	18.53	18.48	19.50
	16QAM	25	0	18.63	18.42	18.48	19.50
		1	0	18.54	18.59	18.54	19.50
		1	13	18.62	18.53	18.50	19.50
		1	24	18.63	18.61	18.47	19.50
		12	0	18.34	18.17	18.10	19.50
		12	6	18.25	18.14	18.13	19.50
		12	13	18.29	18.20	18.13	19.50
		25	0	18.30	18.13	18.12	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
				Channel	Channel	Channel	
10MHz	QPSK	1	0	18.67	18.53	18.50	19.50
		1	25	18.48	18.37	18.42	19.50
		1	49	18.47	18.46	18.36	19.50
		25	0	18.57	18.48	18.42	19.50
		25	13	18.55	18.45	18.44	19.50
		25	25	18.44	18.40	18.39	19.50
		50	0	18.55	18.44	18.48	19.50
	16QAM	1	0	18.65	18.59	18.52	19.50
		1	25	18.59	18.51	18.45	19.50
		1	49	18.50	18.52	18.40	19.50
		25	0	18.31	18.22	18.11	19.50
		25	13	18.24	18.20	18.15	19.50
		25	25	18.17	18.12	18.10	19.50
		50	0	18.21	18.14	18.14	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	18.64	18.48	18.36	19.50
		1	38	18.64	18.61	18.46	19.50
		1	74	18.53	18.46	18.35	19.50
		36	0	18.54	18.43	18.38	19.50
		36	18	18.53	18.46	18.43	19.50
		36	39	18.51	18.39	18.37	19.50
		75	0	18.51	18.43	18.43	19.50
	16QAM	1	0	18.53	18.51	18.42	19.50
		1	38	18.63	18.47	18.47	19.50
		1	74	18.44	18.51	18.37	19.50
		36	0	18.28	18.19	18.15	19.50
		36	18	18.27	18.19	18.16	19.50
		36	39	18.23	18.15	18.11	19.50
		75	0	18.22	18.11	18.11	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	18.40	18.52	18.39	19.50
		1	50	18.50	18.49	18.51	19.50
		1	99	18.45	18.38	18.34	19.50
		50	0	18.53	18.58	18.37	19.50
		50	25	18.45	18.55	18.47	19.50
		50	50	18.50	18.40	18.38	19.50
		100	0	18.47	18.39	18.36	19.50
	16QAM	1	0	18.49	18.38	18.31	19.50
		1	50	18.51	18.46	18.40	19.50



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	1	99	18.47	18.42	18.36	19.50
	50	0	18.33	18.21	18.16	19.50
	50	25	18.35	18.27	18.20	19.50
	50	50	18.30	18.14	18.10	19.50
	100	0	18.22	18.13	18.11	19.50

LTE Band 4 receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	19.61	20.10	20.33	21.30
		1	2	19.21	20.00	20.27	21.30
		1	5	19.20	19.75	20.15	21.30
		3	0	19.53	19.81	20.28	21.30
		3	2	19.34	19.73	20.40	21.30
		3	3	19.27	19.78	20.17	21.30
	16QAM	6	0	19.20	19.79	20.15	21.30
		1	0	19.85	19.95	20.23	21.30
		1	2	19.87	20.04	20.75	21.30
		1	5	19.47	20.75	20.86	21.30
		3	0	19.25	19.80	20.26	21.30
		3	2	19.27	19.97	20.31	21.30
		3	3	19.25	19.78	20.28	21.30
		6	0	19.42	19.93	20.33	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	19.62	19.80	20.18	21.30
		1	7	19.44	19.86	20.38	21.30
		1	14	19.18	19.77	20.16	21.30
		8	0	19.30	19.79	20.27	21.30
		8	4	19.28	19.92	20.29	21.30
		8	7	19.30	19.92	20.26	21.30
	16QAM	15	0	19.36	19.78	20.23	21.30
		1	0	19.60	20.08	20.82	21.30
		1	7	19.52	20.18	20.49	21.30
		1	14	20.10	20.04	20.46	21.30
		8	0	19.39	20.07	20.38	21.30
		8	4	19.24	19.87	20.28	21.30
		8	7	19.29	19.87	20.18	21.30
		15	0	19.31	19.93	20.40	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	



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5MHz	QPSK	1	0	19.78	19.89	20.14	21.30
		1	13	19.42	19.86	20.39	21.30
		1	24	19.25	19.84	20.22	21.30
		12	0	19.34	19.97	20.21	21.30
		12	6	19.25	19.99	20.38	21.30
		12	13	19.23	19.88	20.31	21.30
	16QAM	25	0	19.38	19.96	20.33	21.30
		1	0	19.49	20.67	20.46	21.30
		1	13	19.68	19.90	20.52	21.30
		1	24	19.73	19.96	20.72	21.30
		12	0	19.36	19.83	20.22	21.30
		12	6	19.29	19.90	20.33	21.30
		12	13	19.24	19.92	20.26	21.30
		25	0	19.39	19.75	20.33	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	19.87	19.87	20.37	21.30
		1	25	19.41	19.89	20.54	21.30
		1	49	19.57	20.05	20.55	21.30
		25	0	19.48	19.81	20.34	21.30
		25	13	19.40	19.93	20.40	21.30
		25	25	19.31	19.87	20.29	21.30
	16QAM	50	0	19.57	19.87	20.31	21.30
		1	0	20.07	20.62	20.60	21.30
		1	25	19.39	20.41	20.93	21.30
		1	49	20.19	20.41	20.66	21.30
		25	0	19.36	20.07	20.26	21.30
		25	13	19.25	19.68	20.47	21.30
		25	25	19.34	19.92	20.45	21.30
		50	0	19.47	20.05	20.45	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	19.20	19.26	19.95	21.30
		1	38	19.27	19.98	20.08	21.30
		1	74	19.28	20.03	20.08	21.30
		36	0	19.21	19.66	19.83	21.30
		36	18	19.29	19.79	20.09	21.30
		36	39	19.33	19.79	20.13	21.30
	16QAM	75	0	19.21	19.70	19.95	21.30
		1	0	19.17	20.06	20.04	21.30
		1	38	19.36	19.84	20.76	21.30
		1	74	19.44	20.19	19.92	21.30



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	36	0	19.22	19.74	19.82	21.30
		36	18	19.21	19.87	20.11	21.30
		36	39	19.32	19.81	20.10	21.30
		75	0	19.28	19.74	19.98	21.30
		1	0	19.95	20.03	19.89	21.30
		1	50	19.24	19.77	20.02	21.30
		1	99	19.23	19.69	19.94	21.30
	16QAM	50	0	19.52	20.15	20.11	21.30
		50	25	19.34	19.81	20.11	21.30
		50	50	19.22	19.85	20.09	21.30
		100	0	19.44	19.83	20.16	21.30
		1	0	19.71	20.05	20.22	21.30
		1	50	19.79	19.98	20.34	21.30
		1	99	19.60	20.10	20.32	21.30
		50	0	19.44	20.09	20.26	21.30
		50	25	19.33	19.82	20.18	21.30
		50	50	19.24	19.75	20.14	21.30
		100	0	19.35	19.80	20.14	21.30

LTE Band 4 receiver off				Conducted Power(dBm)			Tune up
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				19957	20175	20393	
1.4MHz	QPSK	1	0	19.90	19.43	19.86	20.80
		1	2	20.15	19.49	19.90	20.80
		1	5	19.66	19.47	19.95	20.80
		3	0	19.76	19.54	19.94	20.80
		3	2	19.73	19.55	19.98	20.80
		3	3	19.70	19.45	19.92	20.80
		6	0	19.77	19.40	19.92	20.80
	16QAM	1	0	20.02	19.84	19.54	20.80
		1	2	20.12	19.85	19.76	20.80
		1	5	20.13	19.85	19.85	20.80
		3	0	19.77	19.55	19.95	20.80
		3	2	19.75	19.52	19.98	20.80
		3	3	19.70	19.43	19.88	20.80
		6	0	19.84	19.55	20.05	20.80
3MHz	QPSK	1	0	Channel	Channel	Channel	Tune up
				19965	20175	20385	
				19.75	19.44	19.92	20.80



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		1	7	20.03	19.48	20.01	20.80		
		1	14	19.41	19.44	19.92	20.80		
		8	0	19.37	19.52	19.91	20.80		
		8	4	19.54	19.51	19.99	20.80		
		8	7	19.48	19.45	19.96	20.80		
		15	0	19.43	19.41	19.94	20.80		
		16QAM	1	0	19.79	19.92	19.88	20.80	
			1	7	19.84	19.92	19.78	20.80	
			1	14	19.75	19.74	19.84	20.80	
			8	0	19.49	19.63	20.01	20.80	
			8	4	19.51	19.52	19.80	20.80	
			8	7	19.50	19.51	19.95	20.80	
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						19975	20175	20375	
		5MHz	QPSK	1	0	19.75	19.47	19.97	20.80
1	13			19.60	19.45	19.96	20.80		
1	24			19.50	19.53	19.95	20.80		
12	0			19.59	19.55	20.04	20.80		
12	6			19.54	19.44	20.00	20.80		
12	13			19.54	19.45	19.95	20.80		
25	0			19.59	19.50	20.01	20.80		
16QAM	1		0	19.95	19.92	19.79	20.80		
	1		13	19.82	19.77	19.84	20.80		
	1		24	19.86	19.87	19.71	20.80		
	12		0	19.62	19.60	19.68	20.80		
	12		6	19.53	19.45	19.55	20.80		
	12		13	19.62	19.53	20.01	20.80		
	25		0	19.54	19.50	19.98	20.80		
Bandwidth	Modulation		RB size	RB offset	Channel	Channel	Channel	Tune up	
					20000	20175	20350		
10MHz	QPSK		1	0	19.76	19.69	19.97	20.80	
			1	25	19.83	19.48	20.06	20.80	
		1	49	19.26	19.73	20.26	20.80		
		25	0	19.53	19.60	20.06	20.80		
		25	13	19.53	19.55	20.13	20.80		
		25	25	19.49	19.55	20.12	20.80		
		50	0	19.48	19.53	20.03	20.80		
	16QAM	1	0	19.91	19.87	20.21	20.80		
		1	25	19.76	19.81	19.73	20.80		
		1	49	19.97	20.02	19.89	20.80		
		25	0	19.56	19.61	20.02	20.80		



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	25	13	19.51	19.55	20.10	20.80
		25	25	19.45	19.51	20.12	20.80
		50	0	19.49	19.54	20.06	20.80
		1	0	19.81	19.30	19.29	20.80
		1	38	19.64	19.41	19.83	20.80
		1	74	19.78	19.71	20.07	20.80
	16QAM	36	0	19.47	19.26	19.50	20.80
		36	18	19.59	19.48	19.80	20.80
		36	39	19.72	19.57	19.92	20.80
		75	0	19.52	19.35	19.69	20.80
		1	0	19.70	19.37	19.62	20.80
		1	38	19.91	19.76	19.77	20.80
		1	74	19.77	19.97	19.80	20.80
		36	0	19.40	19.21	19.46	20.80
		36	18	19.58	19.44	19.77	20.80
		36	39	19.68	19.52	19.86	20.80
		75	0	19.56	19.37	19.76	20.80

LTE Band 4 hotspot on/receiver off +WIFI/BT				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	17.81	17.98	18.25	19.30
		1	2	17.91	17.85	18.32	19.30



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		1	5	17.97	17.81	18.17	19.30		
		3	0	18.20	18.12	18.29	19.30		
		3	2	18.07	17.96	18.27	19.30		
		3	3	18.03	18.00	18.28	19.30		
		6	0	18.48	17.97	18.31	19.30		
		1	0	18.21	18.47	18.30	19.30		
		1	2	17.81	18.28	18.22	19.30		
	16QAM	1	5	17.86	18.26	18.15	19.30		
		3	0	17.71	18.08	18.35	19.30		
		3	2	17.89	17.95	18.27	19.30		
		3	3	17.79	17.94	18.29	19.30		
		6	0	17.96	17.96	18.26	19.30		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						19965	20175	20385	
3MHz	QPSK	1	0	17.92	17.96	17.73	19.30		
		1	7	18.16	17.95	18.38	19.30		
		1	14	18.23	18.20	18.58	19.30		
		8	0	17.97	17.79	18.03	19.30		
		8	4	18.09	17.98	18.24	19.30		
		8	7	18.23	18.07	18.41	19.30		
		15	0	18.04	17.84	18.18	19.30		
	16QAM	1	0	18.30	18.04	18.19	19.30		
		1	7	18.55	18.36	18.37	19.30		
		1	14	18.59	18.55	18.56	19.30		
		8	0	17.92	17.73	17.98	19.30		
		8	4	18.13	18.01	18.29	19.30		
		8	7	18.17	18.04	18.35	19.30		
		15	0	18.10	17.90	18.27	19.30		
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
					19975	20175	20375		
	5MHz	QPSK	1	0	17.89	18.05	18.51	19.30	
			1	13	18.20	17.91	18.58	19.30	
1			24	18.35	18.28	18.70	19.30		
12			0	18.21	18.08	18.47	19.30		
12			6	18.24	18.04	18.59	19.30		
12			13	18.20	18.08	18.61	19.30		
25			0	18.19	18.08	18.51	19.30		
16QAM		1	0	18.53	18.30	18.43	19.30		
		1	13	18.27	18.08	18.63	19.30		
		1	24	18.45	18.56	18.33	19.30		
		12	0	18.23	18.08	18.19	19.30		
		12	6	18.26	18.05	18.30	19.30		



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	12	13	18.15	18.04	18.27	19.30
		25	0	18.19	18.09	18.25	19.30
		1	0	17.82	18.00	18.34	19.30
		1	25	18.14	17.88	18.26	19.30
		1	49	18.04	18.07	18.43	19.30
		25	0	18.11	18.07	18.51	19.30
		25	13	18.06	18.02	18.50	19.30
	16QAM	25	25	18.17	18.07	18.50	19.30
		50	0	18.12	18.05	18.50	19.30
		1	0	17.99	18.55	18.44	19.30
		1	25	18.01	18.31	18.31	19.30
		1	49	18.08	18.47	18.29	19.30
		25	0	18.01	18.19	18.11	19.30
		25	13	17.93	18.06	18.03	19.30
15MHz	QPSK	25	25	17.97	18.11	18.02	19.30
		50	0	17.92	18.07	18.01	19.30
		1	0	17.97	17.96	18.54	19.30
		1	38	17.91	17.95	18.39	19.30
		1	74	18.00	18.06	18.36	19.30
		36	0	18.00	18.12	18.37	19.30
		36	18	18.06	18.06	18.47	19.30
	16QAM	36	39	18.03	17.97	18.34	19.30
		75	0	17.98	17.97	18.38	19.30
		1	0	17.86	18.44	18.43	19.30
		1	38	17.84	18.44	18.30	19.30
		1	74	17.77	18.39	18.34	19.30
		36	0	17.96	18.17	18.43	19.30
		36	18	17.96	18.09	18.48	19.30
20MHz	QPSK	36	39	17.99	18.08	18.53	19.30
		75	0	17.97	18.08	18.43	19.30
		1	0	18.15	18.17	18.09	19.30
		1	50	18.12	18.10	18.14	19.30
		1	99	17.93	18.01	18.14	19.30
		50	0	18.01	18.12	18.09	19.30
		50	25	17.96	18.05	18.06	19.30
	QPSK	50	50	17.96	18.00	18.10	19.30



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16QAM	100	0	17.97	17.98	18.32	19.30
	1	0	17.81	18.38	18.37	19.30
	1	50	17.82	18.41	18.21	19.30
	1	99	17.76	18.28	18.28	19.30
	50	0	17.89	18.14	18.40	19.30
	50	25	17.81	18.12	18.45	19.30
	50	50	17.78	18.07	18.43	19.30
	100	0	17.87	18.06	18.40	19.30

LTE Band 66 receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	19.49	19.64	19.32	20.30
		1	2	19.42	19.58	19.46	20.30
		1	5	19.36	19.4	19.35	20.30
		3	0	19.34	19.27	19.35	20.30
		3	1	19.49	19.47	19.43	20.30
		3	3	19.3	19.54	19.57	20.30
	16QAM	6	0	19.39	19.39	19.31	20.30
		1	0	19.28	19.29	19.46	20.30
		1	2	19.31	19.34	19.33	20.30
		1	5	19.27	19.23	19.19	20.30
		3	0	19.56	19.66	19.39	20.30
		3	1	19.49	19.38	19.39	20.30
		3	3	19.39	19.49	19.5	20.30
		6	0	19.43	19.45	19.37	20.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	
3MHz	QPSK	1	0	19.28	19.27	19.42	20.30
		1	7	19.47	19.45	19.44	20.30
		1	14	19.52	19.48	19.56	20.30
		8	0	19.69	19.39	19.32	20.30
		8	4	19.39	19.49	19.54	20.30
		8	7	19.35	19.61	19.41	20.30
	16QAM	15	0	19.53	19.22	19.28	20.30
		1	0	19.52	19.47	19.52	20.30
		1	7	19.56	19.33	19.44	20.30
		1	14	19.51	19.3	19.45	20.30
		8	0	19.37	19.47	19.16	20.30
		8	4	19.24	19.33	19.29	20.30
		8	7	19.56	19.55	19.61	20.30



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Bandwidth	Modulation	15	0	19.42	19.39	19.34	20.30
		RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	QPSK	1	0	19.3	19.4	19.38	20.30
		1	13	19.47	19.56	19.5	20.30
		1	24	19.49	19.36	19.46	20.30
		12	0	19.43	19.56	19.36	20.30
		12	6	19.28	19.3	19.45	20.30
		12	13	19.44	19.38	19.39	20.30
	16QAM	25	0	19.54	19.45	19.54	20.30
		1	0	19.35	19.29	19.49	20.30
		1	13	19.17	19.18	19.27	20.30
		1	24	19.37	19.28	19.28	20.30
		12	0	19.28	19.49	19.18	20.30
		12	6	19.44	19.3	19.21	20.30
		12	13	19.68	19.6	19.68	20.30
		25	0	19.36	19.29	19.34	20.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132022	132322	132622	
10MHz	QPSK	1	0	19.31	19.28	19.48	20.30
		1	25	19.19	19.45	19.48	20.30
		1	49	19.32	19.4	19.33	20.30
		25	0	19.63	19.26	19.29	20.30
		25	13	19.31	19.41	19.41	20.30
		25	25	19.37	19.5	19.54	20.30
	16QAM	50	0	19.26	19.2	19.31	20.30
		1	0	19.46	19.39	19.57	20.30
		1	25	19.43	19.33	19.4	20.30
		1	49	19.3	19.28	19.32	20.30
		25	0	19.37	19.44	19.35	20.30
		25	13	19.44	19.43	19.37	20.30
		25	25	19.47	19.48	19.46	20.30
		50	0	19.49	19.26	19.23	20.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	19.29	19.27	19.29	20.30
		1	38	19.2	19.38	19.39	20.30
		1	74	19.31	19.38	19.38	20.30
		36	0	19.68	19.35	19.47	20.30
		36	18	19.34	19.3	19.47	20.30
		36	39	19.51	19.63	19.55	20.30
		75	0	19.27	19.26	19.26	20.30



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132072	132322	132572	
20MHz	16QAM	1	0	19.2	19.25	19.33	20.30
		1	38	19.5	19.34	19.43	20.30
		1	74	19.39	19.33	19.29	20.30
		36	0	19.39	19.49	19.25	20.30
		36	18	19.51	19.31	19.27	20.30
		36	39	19.36	19.41	19.53	20.30
		75	0	19.55	19.39	19.28	20.30
20MHz	QPSK	1	0	19.23	19.21	19.33	20.30
		1	50	19.32	19.42	19.41	20.30
		1	99	19.21	19.35	19.30	20.30
		50	0	19.40	19.20	19.28	20.30
		50	25	19.32	19.51	19.50	20.30
		50	50	19.26	19.45	19.42	20.30
		100	0	19.40	19.29	19.21	20.30
	16QAM	1	0	19.33	19.39	19.41	20.30
		1	50	19.30	19.25	19.33	20.30
		1	99	19.18	19.24	19.24	20.30
		50	0	19.33	19.50	19.29	20.30
		50	25	19.41	19.27	19.33	20.30
		50	50	19.55	19.50	19.54	20.30
		100	0	19.28	19.26	19.17	20.30

LTE Band 66 receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	19.02	18.94	18.83	19.80
		1	2	18.96	18.81	18.68	19.80
		1	5	19.53	18.88	19.10	19.80
		3	0	18.55	18.91	18.82	19.80
		3	1	18.91	18.69	18.89	19.80
		3	3	18.58	18.54	18.88	19.80
		6	0	18.91	18.87	18.86	19.80
	16QAM	1	0	18.79	18.87	18.91	19.80
		1	2	19.25	19.40	19.29	19.80
		1	5	18.49	18.54	18.54	19.80
		3	0	19.14	19.21	19.38	19.80
		3	1	18.73	18.79	18.84	19.80
		3	3	19.09	18.88	18.85	19.80



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Bandwidth	Modulation	RB size	RB offset	6	0	19.05	18.96	19.12	19.80
				Channel	Channel	Channel	Tune up		
3MHz	QPSK	1	0	131987	132322	132657			
		1	7	18.86	18.86	18.87	19.80		
		1	14	18.92	18.82	18.99	19.80		
		8	0	18.93	18.86	19.31	19.80		
		8	4	18.68	18.67	18.53	19.80		
		8	7	19.05	18.93	19.05	19.80		
		8	7	18.69	18.59	18.42	19.80		
	16QAM	15	0	18.73	18.92	18.89	19.80		
		1	0	19.02	18.90	18.84	19.80		
		1	7	19.12	19.32	19.22	19.80		
		1	14	18.56	18.49	18.57	19.80		
		8	0	19.19	19.05	19.06	19.80		
		8	4	18.88	18.71	18.82	19.80		
		8	7	18.91	18.98	18.87	19.80		
15	0	19.08	19.13	19.05	19.80				
Bandwidth	Modulation	RB size	RB offset	6	0	19.05	18.96	19.12	19.80
				Channel	Channel	Channel	Tune up		
5MHz	QPSK	1	0	131997	132322	132647			
		1	13	18.71	18.85	18.91	19.80		
		1	24	19.28	18.88	18.88	19.80		
		12	0	18.96	19.25	19.03	19.80		
		12	6	19.02	18.54	18.61	19.80		
		12	13	19.02	19.36	19.00	19.80		
		12	13	18.77	18.74	18.57	19.80		
	16QAM	25	0	18.98	18.78	18.63	19.80		
		1	0	19.18	19.16	19.21	19.80		
		1	13	19.42	19.16	19.10	19.80		
		1	24	18.68	18.70	18.50	19.80		
		12	0	18.80	19.34	19.43	19.80		
		12	6	18.55	18.93	18.98	19.80		
		12	13	19.17	18.88	19.08	19.80		
25	0	19.11	19.07	19.18	19.80				
Bandwidth	Modulation	RB size	RB offset	6	0	19.05	18.96	19.12	19.80
				Channel	Channel	Channel	Tune up		
10MHz	QPSK	1	0	132022	132322	132622			
		1	25	18.92	18.84	18.92	19.80		
		1	49	19.02	19.32	19.02	19.80		
		1	49	19.10	18.92	19.10	19.80		
		25	0	18.58	18.94	18.58	19.80		
		25	13	19.10	18.77	19.10	19.80		
		25	25	19.10	18.77	19.10	19.80		
50	0	18.86	18.67	18.86	19.80				
50	0	18.65	18.98	18.65	19.80				



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	16QAM	1	0	19.04	19.09	19.04	19.80
		1	25	19.18	19.10	19.18	19.80
		1	49	18.63	19.08	18.63	19.80
		25	0	19.09	18.62	19.09	19.80
		25	13	18.78	18.50	18.78	19.80
		25	25	18.82	19.07	18.82	19.80
		50	0	19.08	18.76	19.08	19.80
15MHz	QPSK	1	0	19.00	18.84	19.07	19.80
		1	38	19.23	19.11	18.80	19.80
		1	74	19.12	19.00	19.42	19.80
		36	0	18.73	18.78	18.71	19.80
		36	18	19.07	18.63	19.52	19.80
		36	39	19.07	18.73	18.60	19.80
		75	0	18.71	18.76	18.83	19.80
	16QAM	1	0	19.05	18.95	19.00	19.80
		1	38	19.53	18.82	19.27	19.80
		1	74	18.46	19.18	18.58	19.80
		36	0	18.85	18.80	19.41	19.80
		36	18	18.97	18.68	18.84	19.80
		36	39	19.24	18.69	18.95	19.80
		75	0	19.42	18.52	18.77	19.80
20MHz	QPSK	1	0	18.95	18.92	18.78	19.80
		1	50	19.09	19.10	19.04	19.80
		1	99	19.06	18.98	19.04	19.80
		50	0	18.80	18.73	18.77	19.80
		50	25	18.76	18.95	18.94	19.80
		50	50	18.51	18.83	18.68	19.80
		100	0	18.89	18.93	18.76	19.80
	16QAM	1	0	19.00	18.85	19.02	19.80
		1	50	19.14	19.05	19.13	19.80
		1	99	18.61	18.96	18.79	19.80
		50	0	18.88	18.73	18.84	19.80
		50	25	18.72	18.73	18.63	19.80
		50	50	18.83	18.91	19.02	19.80
		100	0	19.13	18.90	19.08	19.80

LTE Band 66 hotspot on/receiver off +WIFI/BT	Conducted Power(dBm)
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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	18.06	17.95	17.76	18.30
		1	2	17.34	17.32	17.29	18.30
		1	5	17.42	17.32	17.33	18.30
		3	0	17.78	17.24	17.67	18.30
		3	1	17.29	17.18	17.41	18.30
		3	3	17.52	17.37	17.46	18.30
		6	0	17.50	17.38	17.63	18.30
	16QAM	1	0	17.33	17.23	17.56	18.30
		1	2	17.34	17.55	17.30	18.30
		1	5	16.99	17.28	17.14	18.30
		3	0	17.40	17.17	17.58	18.30
		3	1	17.18	17.13	17.12	18.30
		3	3	17.76	17.27	17.75	18.30
		6	0	17.76	17.42	17.51	18.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	
3MHz	QPSK	1	0	17.89	17.96	17.81	18.30
		1	7	17.68	17.76	17.55	18.30
		1	14	17.65	17.91	17.60	18.30
		8	0	17.76	17.92	17.59	18.30
		8	4	17.77	17.51	17.63	18.30
		8	7	17.58	17.62	17.75	18.30
		15	0	17.91	18.00	17.71	18.30
	16QAM	1	0	17.61	17.77	17.81	18.30
		1	7	17.77	17.76	17.81	18.30
		1	14	17.73	17.75	17.81	18.30
		8	0	17.84	17.67	17.61	18.30
		8	4	17.72	17.68	17.69	18.30
		8	7	17.67	17.80	17.51	18.30
		15	0	17.84	17.68	17.79	18.30
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel
131997	132322					132647	
5MHz	QPSK	1	0	17.87	17.79	17.99	18.30
		1	13	17.31	17.46	17.31	18.30
		1	24	17.21	17.24	17.49	18.30
		12	0	17.47	17.45	17.36	18.30
		12	6	17.25	17.17	17.47	18.30
		12	13	17.75	17.70	17.43	18.30
		25	0	17.60	17.44	17.44	18.30
	16QAM	1	0	17.39	17.56	17.34	18.30



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			
				132022	132322	132622				
		1	13	17.55	17.28	17.27	18.30			
		1	24	17.21	17.32	17.28	18.30			
		12	0	17.42	17.58	17.24	18.30			
		12	6	17.37	17.27	17.23	18.30			
		12	13	17.84	17.73	17.22	18.30			
		25	0	17.77	17.57	17.58	18.30			
10MHz	QPSK	1	0	17.61	17.79	17.90	18.30			
		1	25	17.75	17.39	17.33	18.30			
		1	49	17.68	17.50	17.35	18.30			
		25	0	17.78	17.39	17.73	18.30			
		25	13	17.16	17.40	17.30	18.30			
		25	25	17.21	17.42	17.55	18.30			
	16QAM	50	0	17.53	17.22	17.42	18.30			
		1	0	17.49	17.40	17.48	18.30			
		1	25	17.47	17.52	17.45	18.30			
		1	49	17.15	17.10	17.02	18.30			
		25	0	17.14	17.29	17.41	18.30			
		25	13	17.15	17.36	17.23	18.30			
			25	25	17.57	17.31	17.60	18.30		
			50	0	17.37	17.53	17.65	18.30		
			Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
			132047	132322	132597					
			15MHz	QPSK	1	0	17.81	17.66	17.63	18.30
					1	38	17.31	17.44	17.65	18.30
1	74	17.57			17.57	17.39	18.30			
36	0	17.46			17.45	17.63	18.30			
36	18	17.34			17.37	17.01	18.30			
36	39	17.55			17.44	17.29	18.30			
16QAM	75	0		17.54	17.28	17.47	18.30			
	1	0		17.53	17.30	17.41	18.30			
	1	38		17.57	17.71	17.43	18.30			
	1	74		17.11	17.11	17.23	18.30			
	36	0		17.39	17.14	17.54	18.30			
	36	18		17.25	17.51	17.40	18.30			
		36		39	17.74	17.63	17.53	18.30		
		75		0	17.40	17.63	17.26	18.30		
		Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		132072		132322	132572					
		20MHz		QPSK	1	0	17.56	17.59	17.57	18.30
					1	50	17.53	17.59	17.43	18.30



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		1	99	17.47	17.49	17.34	18.30
		50	0	17.41	17.52	17.47	18.30
		50	25	17.20	17.55	17.28	18.30
		50	50	17.35	17.42	17.55	18.30
		100	0	17.48	17.43	17.63	18.30
		100	0	17.48	17.43	17.63	18.30
	16QAM	1	0	17.42	17.31	17.39	18.30
		1	50	17.36	17.47	17.40	18.30
		1	99	17.04	17.21	17.13	18.30
		50	0	17.38	17.27	17.39	18.30
		50	25	17.16	17.33	17.20	18.30
		50	50	17.62	17.48	17.77	18.30
		100	0	17.41	17.47	17.59	18.30
		100	0	17.41	17.47	17.59	18.30

ANT4

LTE Band 7 receiver off/receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	19.97	19.65	19.57	21.00
		1	13	19.83	19.55	19.43	21.00
		1	24	19.76	19.50	19.42	21.00
		12	0	19.82	19.50	19.36	21.00
		12	6	19.77	19.46	19.25	21.00
		12	13	19.74	19.60	19.40	21.00
	16QAM	25	0	19.74	19.44	19.42	21.00
		1	0	20.39	19.69	19.55	21.00
		1	13	20.27	19.63	19.29	21.00
		1	24	19.66	19.77	19.84	21.00
		12	0	19.75	19.52	19.46	21.00
		12	6	19.89	19.54	19.44	21.00
		12	13	19.77	19.45	19.29	21.00
		25	0	19.80	19.48	19.38	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	20.21	19.68	19.71	21.00
		1	25	19.81	19.45	19.30	21.00
		1	49	19.77	19.66	19.30	21.00
		25	0	19.72	19.55	19.39	21.00
		25	13	19.73	19.50	19.36	21.00
		25	25	19.77	19.50	19.45	21.00
		50	0	19.76	19.54	19.47	21.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	16QAM	1	0	20.21	20.15	19.44	21.00
		1	25	20.08	19.64	19.84	21.00
		1	49	20.12	19.85	20.06	21.00
		25	0	19.76	19.57	19.42	21.00
		25	13	19.74	19.60	19.47	21.00
		25	25	19.64	19.49	19.39	21.00
		50	0	19.66	19.54	19.37	21.00
15MHz	QPSK	1	0	19.40	19.51	19.50	21.00
		1	38	19.62	19.50	19.35	21.00
		1	74	19.54	19.38	19.46	21.00
		36	0	19.67	19.49	19.31	21.00
		36	18	19.82	19.63	19.41	21.00
		36	39	19.88	19.78	19.56	21.00
		75	0	20.00	19.69	19.49	21.00
	16QAM	1	0	19.39	19.66	19.68	21.00
		1	38	19.80	19.50	19.78	21.00
		1	74	19.89	19.79	19.41	21.00
		36	0	19.79	19.50	19.30	21.00
		36	18	19.84	19.71	19.50	21.00
		36	39	19.85	19.77	19.52	21.00
		75	0	19.87	19.60	19.47	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	19.76	19.33	19.48	21.00
		1	50	19.66	19.60	19.43	21.00
		1	99	19.78	19.75	19.68	21.00
		50	0	19.77	19.77	19.63	21.00
		50	25	19.71	19.76	19.60	21.00
		50	50	19.81	19.78	19.67	21.00
		100	0	19.95	19.76	19.58	21.00
	16QAM	1	0	20.17	19.61	19.49	21.00
		1	50	19.66	20.05	19.47	21.00
		1	99	20.15	20.28	20.19	21.00
		50	0	19.59	19.38	19.37	21.00
		50	25	19.69	19.51	19.37	21.00
		50	50	19.70	19.61	19.52	21.00
		100	0	19.88	19.67	19.43	21.00

LTE Band 7 hotspot on/receiver off +WIFI/BT	Conducted Power(dBm)
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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				20775	21100	21425			
5MHz	QPSK	1	0	18.40	18.10	18.09	19.50		
		1	13	18.07	17.91	17.89	19.50		
		1	24	18.15	17.85	17.83	19.50		
		12	0	18.25	18.03	17.88	19.50		
		12	6	18.28	18.07	17.82	19.50		
		12	13	18.32	18.08	17.87	19.50		
	16QAM	25	0	18.44	18.08	18.01	19.50		
		1	0	18.54	18.48	18.20	19.50		
		1	13	18.38	18.21	17.89	19.50		
		1	24	18.50	18.07	18.17	19.50		
		12	0	18.45	18.11	17.95	19.50		
		12	6	18.41	18.08	17.95	19.50		
		12	13	18.40	18.12	17.97	19.50		
		25	0	18.39	18.03	18.03	19.50		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				20800	21100	21400			
10MHz	QPSK	1	0	18.32	18.18	18.18	19.50		
		1	25	18.15	18.04	17.98	19.50		
		1	49	18.34	18.20	18.07	19.50		
		25	0	18.28	18.14	18.01	19.50		
		25	13	18.35	18.20	18.10	19.50		
		25	25	18.29	17.91	17.81	19.50		
	16QAM	50	0	18.35	18.17	17.95	19.50		
		1	0	18.61	18.39	18.15	19.50		
		1	25	18.69	18.58	18.48	19.50		
		1	49	18.86	18.48	18.84	19.50		
		25	0	18.30	18.19	17.97	19.50		
		25	13	18.41	18.07	18.11	19.50		
		25	25	18.37	17.95	17.95	19.50		
		50	0	18.26	17.91	17.81	19.50		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						20825	21100	21375	
15MHz	QPSK	1	0	17.81	17.77	17.83	19.50		
		1	38	18.39	17.86	17.89	19.50		
		1	74	17.89	17.83	17.82	19.50		
		36	0	18.31	18.04	17.98	19.50		
		36	18	18.26	18.05	18.08	19.50		
		36	39	18.34	18.17	18.05	19.50		
		75	0	18.33	18.07	17.98	19.50		
	16QAM	1	0	18.21	17.93	18.11	19.50		



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	38	18.67	18.01	18.43	19.50
		1	74	18.20	17.99	18.41	19.50
		36	0	18.25	17.97	17.95	19.50
		36	18	18.10	18.03	17.94	19.50
		36	39	18.40	18.12	18.10	19.50
		75	0	18.28	18.17	18.05	19.50
	16QAM	1	0	18.05	17.86	17.89	19.50
			50	18.16	18.02	17.94	19.50
			99	18.47	18.46	18.42	19.50
			0	17.95	17.82	17.78	19.50
			25	18.04	17.91	17.87	19.50
			50	18.34	18.22	18.11	19.50
		50	0	18.36	18.06	18.21	19.50
			0	18.08	18.50	18.19	19.50
			50	18.14	18.88	18.79	19.50
			99	18.95	18.91	18.53	19.50
			0	18.03	18.02	17.93	19.50
			25	18.05	18.08	18.05	19.50
50	50	18.11	18.02	18.01	19.50		
	100	18.16	17.96	17.85	19.50		

8.1.4 Conducted Power of WIFI

WiFi 2.4G Receiver off						
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11b	1	2412	1	17.59	18.50	Yes
	6	2437		17.55	18.50	Yes
	11	2462		17.89	18.50	Yes
802.11g	1	2412	6	14.85	15.00	No
	2	2417		16.01	17.00	No
	3	2422		17.92	19.00	No
	6	2437		17.85	19.00	No
	9	2452		17.73	19.00	No
	10	2457		15.89	17.00	No
	11	2462		14.85	15.00	No
802.11n HT20	1	2412	6.5	14.65	15.00	No
	2	2417		15.83	17.00	No
	3	2422		17.54	18.50	No
	6	2437		17.68	18.50	No



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	9	2452		17.49	18.50	No
	10	2457		15.92	17.00	No
	11	2462		14.65	15.00	No
802.11n HT40	3	2422	13.5	10.45	11.50	No
	4	2427		10.33	11.50	No
	5	2432		12.49	13.50	No
	6	2437		14.05	15.00	No
	7	2442		12.31	13.50	No
	8	2447		11.59	13.00	No
	9	2452		11.18	12.50	No

WiFi 2.4G Receiver on						
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11b	1	2412	1	11.45	12.00	Yes
	6	2437		11.32	12.00	Yes
	11	2462		11.64	12.00	Yes
802.11g	1	2412	6	11.77	12.00	No
	6	2437		11.65	12.00	No
	11	2462		11.83	12.00	No
802.11n HT20	1	2412	6.5	11.58	12.00	No
	6	2437		11.47	12.00	No
	11	2462		11.63	12.00	No
802.11n HT40	3	2422	13.5	10.45	11.50	No
	4	2427		10.38	11.50	No
	5	2432		11.53	12.00	No
	6	2437		11.69	12.00	No
	9	2452		11.18	12.00	No

WiFi 5G Receiver off							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11a	U-NII-1	36	5180	6	13.95	15.00	No
		40	5200		18.68	19.00	Yes
		44	5220		18.51	19.00	No
		48	5240		18.35	19.00	No
	U-NII-2A	52	5260		18.42	19.00	Yes
		56	5280		18.37	19.00	No
		60	5300		18.33	19.00	No
		64	5320		15.35	16.00	No



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test	
802.11n-HT20	U-NII-2C	100	5500	MCS0	16.97	18.00	No	
		104	5520		17.89	19.00	Yes	
		108	5540		17.85	19.00	No	
		112	5560		17.68	19.00	No	
		116	5580		17.15	18.50	No	
		120	5600		17.63	19.00	No	
		124	5620		17.71	19.00	No	
		128	5640		17.73	19.00	No	
		132	5660		17.68	19.00	No	
		136	5680		17.66	19.00	No	
		140	5700		17.55	15.00	No	
		U-NII-3	149		5745	17.65	19.00	No
	153		5765		17.67	19.00	No	
	157		5785		17.69	19.00	Yes	
	161		5805		17.54	19.00	No	
	165		5825		17.61	19.00	No	
	U-NII-1		U-NII-1		36	5180	14.75	15.00
		40			5200	17.52	18.50	No
		44			5220	17.35	18.50	No
		48			5240	17.30	18.50	No
		U-NII-2A	52		5260	17.34	18.50	No
			56		5280	17.28	18.50	No
			60		5300	17.25	18.50	No
			64		5320	15.22	16.00	No
		U-NII-2C	100		5500	17.29	18.00	No
			104		5520	17.74	18.50	No
			108		5540	17.69	18.50	No
			112		5560	17.53	18.50	No
116			5580	16.51	17.50	No		
120			5600	17.48	18.50	No		
124			5620	17.54	18.50	No		
128			5640	17.56	18.50	No		
132			5660	17.55	18.50	No		
136			5680	17.50	18.50	No		
U-NII-3		140	5700	14.78	15.00	No		
		149	5745	17.46	18.50	No		
		153	5765	17.51	18.50	No		
		157	5785	17.54	18.50	No		
		161	5805	17.38	18.50	No		
		165	5825	17.45	18.50	No		



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test		
802.11n-HT40	U-NII-1	38	5190	MCS0	8.54	9.00	No		
		46	5230		17.45	18.00	No		
	U-NII-2A	54	5270		17.44	18.00	No		
		62	5310		8.10	9.50	No		
	U-NII-2C	102	5510		9.73	10.00	No		
		110	5550		16.82	17.00	No		
		118	5590		17.61	18.00	No		
		126	5630		17.68	18.00	No		
		134	5670		16.75	17.00	No		
		142	5710		17.61	18.00	No		
	U-NII-3	151	5755		17.71	18.00	No		
		159	5795		17.58	18.00	No		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	802.11ac-20M	U-NII-1	36		5180	MCS0	14.79	15.00	No
40			5200	17.41	18.50		No		
44			5220	17.23	18.50		No		
48			5240	17.24	18.50		No		
U-NII-2A		52	5260	17.27	18.50		No		
		56	5280	17.28	18.50		No		
		60	5300	17.39	18.50		No		
		64	5320	15.35	16.00		No		
U-NII-2C		100	5500	17.28	18.00		No		
		104	5520	17.60	18.50		No		
		108	5540	17.69	18.50		No		
		112	5560	17.55	18.50		No		
		116	5580	16.37	17.50		No		
		120	5600	17.35	18.50		No		
		124	5620	17.46	18.50		No		
		128	5640	17.42	18.50		No		
		132	5660	17.49	18.50		No		
		136	5680	17.56	18.50		No		
U-NII-3		140	5700	14.65	15.00		No		
		149	5745	17.32	18.50		No		
		153	5765	17.57	18.50		No		
		157	5785	17.49	18.50		No		
		161	5805	17.45	18.50		No		
		165	5825	17.32	18.50		No		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test		
802.11ac-40M	U-NII-1	38	5190	MCS0	8.47	9.00	No		



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ac 80M	U-NII-2A	46	5230	MCS0	17.38	18.00	No
		54	5270		17.50	18.00	No
		62	5310		8.09	9.50	No
	U-NII-2C	102	5510		9.79	10.00	No
		110	5550		16.81	17.00	No
		118	5590		17.56	18.00	No
		126	5630		17.58	18.00	No
		134	5670		16.75	17.00	No
		142	5710		17.53	18.00	No
	U-NII-3	151	5755		17.72	18.00	No
		159	5795		17.57	18.00	No

WiFi 5G Receiver off							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11a	U-NII-1	36	5180	6	11.45	12.00	No
		40	5200		11.25	12.00	No
		44	5220		11.12	12.00	No
		48	5240		11.08	12.00	No
	U-NII-2A	52	5260		11.17	12.00	No
		56	5280		11.12	12.00	No
		60	5300		11.07	12.00	No
		64	5320		10.85	12.00	No
	U-NII-2C	100	5500		11.65	12.00	No
		104	5520		11.53	12.00	No
		108	5540		11.52	12.00	No
		112	5560		11.34	12.00	No
		116	5580		11.50	12.00	No
		120	5600		11.35	12.00	No
		124	5620		11.42	12.00	No
		128	5640		11.41	12.00	No
		132	5660		11.35	12.00	No
		136	5680		11.33	12.00	No
		140	5700		11.35	12.00	No



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test	
802.11n-HT20	U-NII-3	149	5745	MCS0	11.38	12.00	No	
		153	5765		11.45	12.00	No	
		157	5785		11.44	12.00	No	
		161	5805		11.32	12.00	No	
		165	5825		11.35	12.00	No	
	U-NII-1	36	5180		11.25	12.00	No	
		40	5200		11.08	12.00	No	
		44	5220		10.89	12.00	No	
		48	5240		10.88	12.00	No	
		U-NII-2A	52		5260	10.98	12.00	No
			56		5280	10.92	12.00	No
			60		5300	10.87	12.00	No
			64		5320	10.71	12.00	No
		U-NII-2C	100		5500	11.41	12.00	No
			104		5520	11.35	12.00	No
			108		5540	11.32	12.00	No
			112		5560	11.15	12.00	No
			116		5580	11.35	12.00	No
			120		5600	11.15	12.00	No
			124		5620	11.25	12.00	No
128	5640		11.22	12.00	No			
U-NII-3	132	5660	11.15	12.00	No			
	136	5680	11.11	12.00	No			
	140	5700	11.16	12.00	No			
	149	5745	11.21	12.00	No			
	153	5765	11.23	12.00	No			
	157	5785	11.23	12.00	No			
	161	5805	11.14	12.00	No			
165	5825	11.15	12.00	No				
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test	
802.11n-HT40	U-NII-1	38	5190	MCS0	8.56	9.00	No	
		46	5230		11.12	12.00	No	
	U-NII-2A	54	5270		11.14	12.00	Yes	
		62	5310		8.06	9.50	No	
	U-NII-2C	102	5510		11.75	12.00	No	
		110	5550		11.52	12.00	No	
		118	5590		11.45	12.00	No	
		126	5630		11.45	12.00	No	
		134	5670		11.38	12.00	No	
		142	5710		11.40	12.00	No	



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ac-20M	U-NII-3	151	5755	MCS0	11.52	12.00	No
		159	5795		11.38	12.00	No
	U-NII-1	36	5180		11.30	12.00	No
		40	5200		10.98	12.00	No
		44	5220		10.81	12.00	No
		48	5240		10.85	12.00	No
	U-NII-2A	52	5260		10.92	12.00	No
		56	5280		10.86	12.00	No
		60	5300		10.79	12.00	No
		64	5320		10.62	12.00	No
	U-NII-2C	100	5500		11.42	12.00	No
		104	5520		11.28	12.00	No
		108	5540		11.33	12.00	No
		112	5560		11.18	12.00	No
		116	5580		11.33	12.00	No
		120	5600		11.24	12.00	No
		124	5620		11.20	12.00	No
		128	5640		11.14	12.00	No
		132	5660		11.25	12.00	No
		136	5680		11.09	12.00	No
U-NII-3	140	5700	11.21	12.00	No		
	149	5745	11.24	12.00	No		
	153	5765	11.23	12.00	No		
	157	5785	11.19	12.00	No		
	161	5805	11.06	12.00	No		
		165	5825	11.25	12.00	No	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ac-40M	U-NII-1	38	5190	MCS0	8.47	9.00	No
		46	5230		11.22	12.00	No
	U-NII-2A	54	5270		11.09	12.00	No
		62	5310		8.11	9.50	No
	U-NII-2C	102	5510		11.84	12.00	No
		110	5550		11.57	12.00	No
		118	5590		11.55	12.00	No
		126	5630		11.49	12.00	No
		134	5670		11.33	12.00	No
		142	5710		11.30	12.00	No
	U-NII-3	151	5755		11.52	12.00	No
		159	5795		11.34	12.00	No



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	7.24	8.00	No
	U-NII-2A	58	5290		8.02	8.50	No
	U-NII-2C	106	5530		8.42	9.00	No
		122	5610		11.34	12.00	Yes
		138	5690		11.05	12.00	No
	U-NII-3	155	5775		11.28	12.00	Yes

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
 - 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

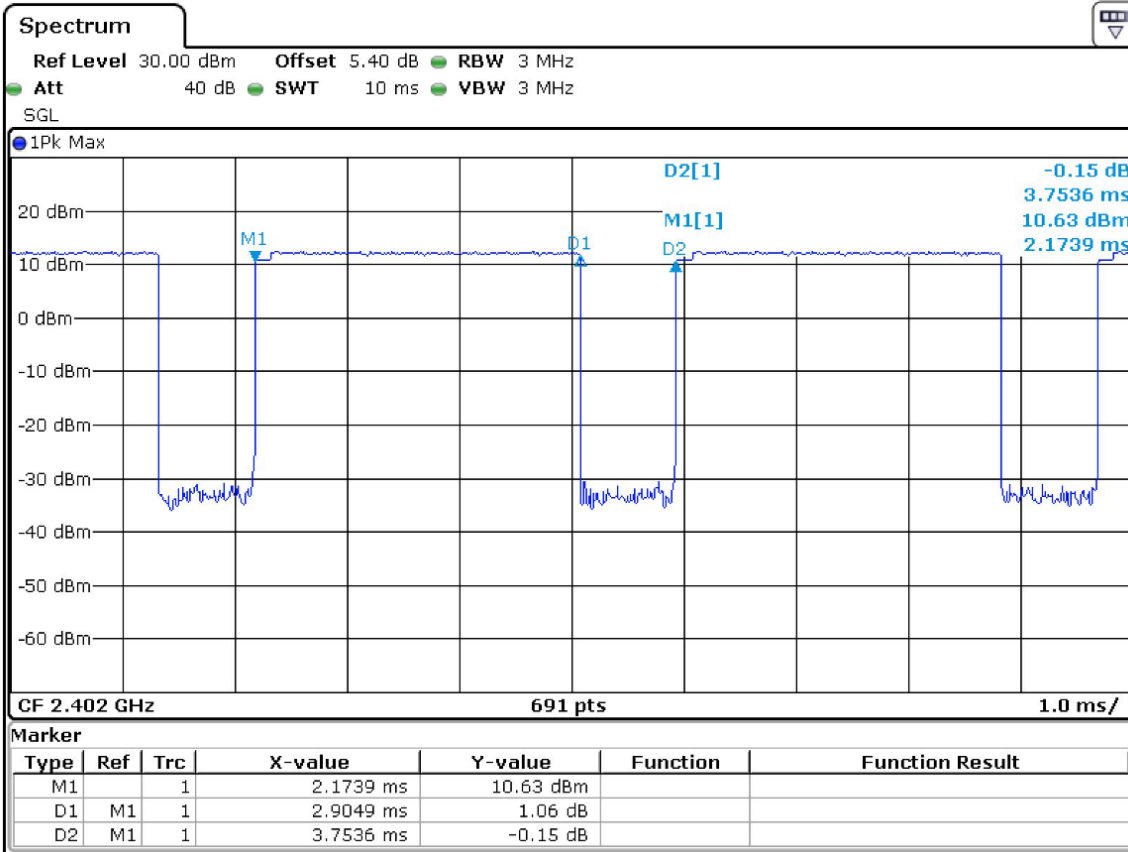
8.1.5 Conducted Power of BT

BT DH5 Duty Cycle=2.90/3.75 =77.0%



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Note: The conducted power of BT is measured with RMS detector.



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BT			Tune up
Band	Channel	Average Conducted Power(dBm)	
GFSK	0	11.83	12.0
	1	11.77	12.0
	38	13.01	13.3
	39	13.08	13.3
	40	12.96	13.3
	77	12.14	12.5
	78	12.22	12.5
π/4DQPSK	0	8.71	11.5
	39	10.42	11.5
	78	9.95	11.5
8DPSK	0	8.70	11.5
	39	10.42	11.5
	78	9.90	11.5
BLE 1M	0	5.04	9.5
	19	7.07	9.5
	39	6.74	9.5



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8.2 Measurement of SAR Data

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.

8.2.1 SAR Result of GSM850

Ant1 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	190/836.6	1:8.3	0.104	0.03	32.21	33.30	1.285	0.134	22.1
Left tilted	GSM	190/836.6	1:8.3	0.043	0.16	32.21	33.30	1.285	0.055	22.1
Right cheek	GSM	190/836.6	1:8.3	0.091	0.03	32.21	33.30	1.285	0.117	22.1
Right tilted	GSM	190/836.6	1:8.3	0.049	0.02	32.21	33.30	1.285	0.063	22.1
Head Test data at the worst case with battery 2										
Left cheek	GSM	190/836.6	1:8.3	0.095	0.01	32.21	33.30	1.285	0.122	22.1
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.127	0.00	32.21	33.30	1.285	0.163	22.1
Back side	GSM	190/836.6	1:8.3	0.161	-0.03	32.21	33.30	1.285	0.207	22.1
Body worn Test data at the worst case with battery 2										
Back side	GSM	190/836.6	1:8.3	0.152	0.02	32.21	33.30	1.285	0.195	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:2.075	0.101	0.03	26.84	27.70	1.219	0.123	22.1
Back side	GPRS 2TS	190/836.6	1:2.075	0.149	-0.01	26.84	27.70	1.219	0.182	22.1
Left side	GPRS 2TS	190/836.6	1:2.075	0.003	0.14	26.84	27.70	1.219	0.004	22.1
Right side	GPRS 2TS	190/836.6	1:2.075	0.001	0.13	26.84	27.70	1.219	0.001	22.1
Bottom side	GPRS 2TS	190/836.6	1:2.075	0.070	0.10	26.84	27.70	1.219	0.085	22.1
Hotspot Test data at the worst case with battery 2										
Back side	GPRS 2TS	190/836.6	1:2.075	0.141	0.03	26.84	27.70	1.219	0.172	22.1
Ant3 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	190/836.6	1:8.3	0.058	0.16	32.30	33.20	1.230	0.071	22.1
Left tilted	GSM	190/836.6	1:8.3	0.046	-0.01	32.30	33.20	1.230	0.057	22.1
Right cheek	GSM	190/836.6	1:8.3	0.111	-0.18	32.30	33.20	1.230	0.137	22.1
Right tilted	GSM	190/836.6	1:8.3	0.081	-0.12	32.30	33.20	1.230	0.100	22.1
Head Test data at the worst case with battery 2										
Right cheek	GSM	190/836.6	1:8.3	0.110	0.04	32.30	33.20	1.230	0.135	22.1
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.011	-0.15	32.30	33.20	1.230	0.014	22.1
Back side	GSM	190/836.6	1:8.3	0.031	-0.06	32.30	33.20	1.230	0.038	22.1
Body worn Test data at the worst case with battery 2										
Back side	GSM	190/836.6	1:8.3	0.027	0.01	32.30	33.20	1.230	0.033	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:2.075	0.032	-0.12	29.45	30.50	1.274	0.041	22.1
Back side	GPRS 2TS	190/836.6	1:2.075	0.068	0.05	29.45	30.50	1.274	0.087	22.1
Left side	GPRS 2TS	190/836.6	1:2.075	0.047	-0.13	29.45	30.50	1.274	0.060	22.1
Right side	GPRS 2TS	190/836.6	1:2.075	0.001	-0.11	29.45	30.50	1.274	0.001	22.1
Top side	GPRS 2TS	190/836.6	1:2.075	0.045	0.09	29.45	30.50	1.274	0.057	22.1
Hotspot Test data at the worst case with battery 2										
Back side	GPRS 2TS	190/836.6	1:2.075	0.059	0.13	29.45	30.50	1.274	0.075	22.1

Table 1: SAR of GSM850 for Head and Body.



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8.2.2 SAR Result of GSM1900

Ant0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	661/1880	1:8.3	0.059	0.08	29.83	30.50	1.167	0.069	22.3
Left tilted	GSM	661/1880	1:8.3	0.020	0.08	29.83	30.50	1.167	0.023	22.3
Right cheek	GSM	661/1880	1:8.3	0.043	0.09	29.83	30.50	1.167	0.050	22.3
Right tilted	GSM	661/1880	1:8.3	0.028	-0.15	29.83	30.50	1.167	0.033	22.3
Head Test data at the worst case with battery 2										
Left cheek	GSM	661/1880	1:8.3	0.046	0.06	29.83	30.50	1.167	0.054	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.072	-0.09	29.83	30.50	1.167	0.084	22.3
Back side	GSM	661/1880	1:8.3	0.124	0.12	29.83	30.50	1.167	0.145	22.3
Body worn Test data at the worst case with battery 2										
Back side	GSM	661/1880	1:8.3	0.135	-0.14	29.83	30.50	1.167	0.158	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 3TS	661/1880	1:2.075	0.044	-0.11	21.16	22.00	1.213	0.053	22.3
Back side	GPRS 3TS	661/1880	1:2.075	0.072	-0.06	21.16	22.00	1.213	0.087	22.3
Left side	GPRS 3TS	661/1880	1:2.075	0.023	0.00	21.16	22.00	1.213	0.028	22.3
Right side	GPRS 3TS	661/1880	1:2.075	0.020	-0.11	21.16	22.00	1.213	0.024	22.3
Bottom side	GPRS 3TS	661/1880	1:2.075	0.090	0.09	21.16	22.00	1.213	0.109	22.3
Hotspot Test data at the worst case with battery 2										
Bottom side	GPRS 3TS	661/1880	1:2.075	0.085	-0.07	21.16	22.00	1.213	0.103	22.3
Ant2 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	661/1880	1:8.3	0.388	-0.03	29.36	30.50	1.300	0.504	22.3
Left tilted	GSM	661/1880	1:8.3	0.607	0.09	29.36	30.50	1.300	0.789	22.3
Right cheek	GSM	661/1880	1:8.3	0.312	-0.02	29.36	30.50	1.300	0.406	22.3
Right tilted	GSM	661/1880	1:8.3	0.471	-0.13	29.36	30.50	1.300	0.612	22.3
Head Test data at the worst case with battery 2										
Left tilted	GSM	661/1880	1:8.3	0.561	0.27	29.36	30.50	1.300	0.729	22.2
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.045	0.05	29.36	30.50	1.300	0.059	22.3
Back side	GSM	661/1880	1:8.3	0.128	0.18	29.36	30.50	1.300	0.166	22.3
Body worn Test data at the worst case with battery 2										
Back side	GSM	661/1880	1:8.3	0.139	0.04	29.36	30.50	1.300	0.181	22.2
Hotspot Test data(Separate 10mm)										
Front side	GPRS 1TS	661/1880	1:8.3	0.062	0.03	29.22	30.50	1.343	0.083	22.3
Back side	GPRS 1TS	661/1880	1:8.3	0.162	0.14	29.22	30.50	1.343	0.218	22.3
Left side	GPRS 1TS	661/1880	1:8.3	0.014	0.16	29.22	30.50	1.343	0.019	22.3
Right side	GPRS 1TS	661/1880	1:8.3	0.012	0.05	29.22	30.50	1.343	0.016	22.3
Top side	GPRS 1TS	661/1880	1:8.3	0.237	0.04	29.22	30.50	1.343	0.318	22.3
Hotspot Test data at the worst case with battery 2										
Top side	GPRS 1TS	661/1880	1:8.3	0.187	0.03	29.22	30.50	1.343	0.251	22.2

Table 2: SAR of GSM1900 for Head and Body.

8.2.3 SAR Result of WCDMA Band II

Ant0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	9400/1880	1:1	0.140	0.09	23.41	24.80	1.377	0.193	22.3
Left tilted	RMC	9400/1880	1:1	0.053	0.15	23.41	24.80	1.377	0.073	22.3
Right cheek	RMC	9400/1880	1:1	0.109	0.12	23.41	24.80	1.377	0.150	22.3
Right tilted	RMC	9400/1880	1:1	0.067	0.00	23.41	24.80	1.377	0.093	22.3
Head Test data at the worst case with battery 2										
Left cheek	RMC	9400/1880	1:1	0.126	0.07	23.41	24.80	1.377	0.174	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.170	-0.20	23.41	24.80	1.377	0.234	22.3
Back side	RMC	9400/1880	1:1	0.254	-0.07	23.41	24.80	1.377	0.350	22.3
Body worn Test data at the worst case with battery 2										
Back side	RMC	9400/1880	1:1	0.293	-0.07	23.41	24.80	1.377	0.404	22.3
Hotspot Test data(Separate 10mm)										



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Front side	RMC	9400/1880	1:1	0.157	-0.04	20.66	21.80	1.300	0.204	22.3
Back side	RMC	9400/1880	1:1	0.212	-0.02	20.66	21.80	1.300	0.276	22.3
Left side	RMC	9400/1880	1:1	0.095	-0.02	20.66	21.80	1.300	0.124	22.3
Right side	RMC	9400/1880	1:1	0.069	0.13	20.66	21.80	1.300	0.090	22.3
Bottom side	RMC	9400/1880	1:1	0.340	-0.06	20.66	21.80	1.300	0.442	22.3
Hotspot Test data at the worst case with battery 2										
Bottom side	RMC	9400/1880	1:1	0.312	0.08	20.66	21.80	1.300	0.406	22.2
Ant2 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	9400/1880	1:1	0.370	-0.06	18.69	20.30	1.449	0.536	22.3
Left tilted	RMC	9400/1880	1:1	0.420	-0.08	18.69	20.30	1.449	0.608	22.3
Right cheek	RMC	9400/1880	1:1	0.292	-0.06	18.69	20.30	1.449	0.423	22.3
Right tilted	RMC	9400/1880	1:1	0.381	-0.09	18.69	20.30	1.449	0.552	22.3
Head Test data at the worst case with battery 2										
Left tilted	RMC	9400/1880	1:1	0.413	0.03	18.69	20.30	1.449	0.598	22.2
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.055	0.02	19.67	21.30	1.455	0.080	22.3
Back side	RMC	9400/1880	1:1	0.138	0.05	19.67	21.30	1.455	0.201	22.3
Body worn Test data at the worst case with battery 2										
Back side	RMC	9400/1880	1:1	0.127	0.17	19.67	21.30	1.455	0.185	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.082	0.04	18.19	19.80	1.449	0.118	22.3
Back side	RMC	9400/1880	1:1	0.218	0.01	18.19	19.80	1.449	0.316	22.3
Left side	RMC	9400/1880	1:1	0.022	0.07	18.19	19.80	1.449	0.032	22.3
Right side	RMC	9400/1880	1:1	0.022	-0.12	18.19	19.80	1.449	0.031	22.3
Top side	RMC	9400/1880	1:1	0.301	0.13	18.19	19.80	1.449	0.436	22.3
Hotspot Test data at the worst case with battery 2										
Top side	RMC	9400/1880	1:1	0.249	-0.10	18.19	19.80	1.449	0.361	22.2

Table 3: SAR of WCDMA Band II for Head and Body.



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8.2.4 SAR Result of WCDMA Band IV

Ant0 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	1412/1732.4	1:1	0.103	0.00	23.07	24.30	1.327	0.137	22.2
Left tilted	RMC	1412/1732.4	1:1	0.065	0.05	23.07	24.30	1.327	0.086	22.2
Right cheek	RMC	1412/1732.4	1:1	0.096	0.17	23.07	24.30	1.327	0.127	22.2
Right tilted	RMC	1412/1732.4	1:1	0.053	-0.15	23.07	24.30	1.327	0.070	22.2
Head Test data at the worst case with battery 2										
Left cheek	RMC	1412/1732.4	1:1	0.093	0.03	23.07	24.30	1.327	0.123	22.2
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.141	-0.09	23.07	24.30	1.327	0.187	22.2
Back side	RMC	1412/1732.4	1:1	0.235	0.05	23.07	24.30	1.327	0.312	22.2
Body worn Test data at the worst case with battery 2										
Back side	RMC	1412/1732.4	1:1	0.215	-0.07	23.07	24.30	1.327	0.285	22.2
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.136	-0.10	20.88	21.30	1.102	0.150	22.2
Back side	RMC	1412/1732.4	1:1	0.174	-0.01	20.88	21.30	1.102	0.192	22.2
Left side	RMC	1412/1732.4	1:1	0.089	-0.01	20.88	21.30	1.102	0.098	22.2
Right side	RMC	1412/1732.4	1:1	0.069	0.07	20.88	21.30	1.102	0.076	22.2
Bottom side	RMC	1412/1732.4	1:1	0.303	-0.08	20.88	21.30	1.102	0.334	22.2
Hotspot Test data at the worst case with battery 2										
Bottom side	RMC	1412/1732.4	1:1	0.348	-0.03	20.88	21.30	1.102	0.383	22.2
Ant2 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	1412/1732.4	1:1	0.375	-0.17	19.82	21.30	1.406	0.527	22.2
Left tilted	RMC	1412/1732.4	1:1	0.437	-0.16	19.82	21.30	1.406	0.614	22.2
Right cheek	RMC	1412/1732.4	1:1	0.284	0.03	19.82	21.30	1.406	0.399	22.2
Right tilted	RMC	1412/1732.4	1:1	0.412	-0.09	19.82	21.30	1.406	0.579	22.2
Head Test data at the worst case with battery 2										
Left tilted	RMC	1412/1732.4	1:1	0.494	-0.11	19.82	21.30	1.406	0.695	22.2
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.041	0.03	19.40	20.80	1.380	0.056	22.2
Back side	RMC	1412/1732.4	1:1	0.110	0.17	19.40	20.80	1.380	0.152	22.2
Body worn Test data at the worst case with battery 2										
Back side	RMC	1412/1732.4	1:1	0.108	0.07	19.40	20.80	1.380	0.149	22.2
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.056	0.05	17.83	19.30	1.403	0.079	22.2
Back side	RMC	1412/1732.4	1:1	0.142	0.03	17.83	19.30	1.403	0.199	22.2
Left side	RMC	1412/1732.4	1:1	0.020	0.05	17.83	19.30	1.403	0.027	22.2
Right side	RMC	1412/1732.4	1:1	0.012	0.03	17.83	19.30	1.403	0.016	22.2
Top side	RMC	1412/1732.4	1:1	0.194	0.09	17.83	19.30	1.403	0.272	22.2
Hotspot Test data at the worst case with battery 2										
Top side	RMC	1412/1732.4	1:1	0.174	0.04	17.83	19.30	1.403	0.244	22.2

Table 4: SAR of WCDMA Band IV for Head and Body.



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8.2.5 SAR Result of WCDMA Band V

Ant1 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	4182/836.4	1:1	0.121	0.06	23.41	25.00	1.442	0.174	22.1
Left tilted	RMC	4182/836.4	1:1	0.051	0.14	23.41	25.00	1.442	0.074	22.1
Right cheek	RMC	4182/836.4	1:1	0.116	-0.02	23.41	25.00	1.442	0.167	22.1
Right tilted	RMC	4182/836.4	1:1	0.061	0.05	23.41	25.00	1.442	0.088	22.1
Head Test data at the worst case with battery 2										
Left cheek	RMC	4182/836.4	1:1	0.115	0.16	23.41	25.00	1.442	0.166	22.2
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.145	-0.06	23.41	25.00	1.442	0.209	22.1
Back side	RMC	4182/836.4	1:1	0.179	-0.05	23.41	25.00	1.442	0.258	22.1
Body worn Test data at the worst case with battery 2										
Back side	RMC	4182/836.4	1:1	0.121	0.04	23.41	25.00	1.442	0.174	22.2
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.242	-0.13	23.41	25.00	1.442	0.349	22.1
Back side	RMC	4182/836.4	1:1	0.318	-0.05	23.41	25.00	1.442	0.459	22.1
Left side	RMC	4182/836.4	1:1	0.119	0.00	23.41	25.00	1.442	0.172	22.1
Right side	RMC	4182/836.4	1:1	0.100	-0.12	23.41	25.00	1.442	0.144	22.1
Bottom side	RMC	4182/836.4	1:1	0.186	-0.08	23.41	25.00	1.442	0.268	22.1
Hotspot Test data at the worst case with battery 2										
Back side	RMC	4182/836.4	1:1	0.271	0.05	23.41	25.00	1.442	0.391	22.2
Ant3 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(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	4182/836.4	1:1	0.093	-0.02	23.31	25.00	1.476	0.137	22.1
Left tilted	RMC	4182/836.4	1:1	0.085	-0.13	23.31	25.00	1.476	0.125	22.1
Right cheek	RMC	4182/836.4	1:1	0.156	-0.02	23.31	25.00	1.476	0.230	22.1
Right tilted	RMC	4182/836.4	1:1	0.135	0.16	23.31	25.00	1.476	0.199	22.1
Head Test data at the worst case with battery 2										
Right cheek	RMC	4182/836.4	1:1	0.154	0.02	23.31	25.00	1.476	0.227	22.1
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.024	-0.18	23.31	25.00	1.476	0.035	22.1
Back side	RMC	4182/836.4	1:1	0.045	-0.06	23.31	25.00	1.476	0.067	22.1
Body worn Test data at the worst case with battery 2										
Back side	RMC	4182/836.4	1:1	0.037	-0.12	23.31	25.00	1.476	0.055	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.051	-0.06	23.31	25.00	1.476	0.075	22.1
Back side	RMC	4182/836.4	1:1	0.090	-0.11	23.31	25.00	1.476	0.133	22.1
Left side	RMC	4182/836.4	1:1	0.066	-0.07	23.31	25.00	1.476	0.097	22.1
Right side	RMC	4182/836.4	1:1	0.003	0.10	23.31	25.00	1.476	0.004	22.1
Top side	RMC	4182/836.4	1:1	0.061	-0.10	23.31	25.00	1.476	0.090	22.1
Hotspot Test data at the worst case with battery 2										
Back side	RMC	4182/836.4	1:1	0.086	-0.13	23.31	25.00	1.476	0.128	22.1

Table 5: SAR of WCDMA Band V for Head and Body.



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8.2.6 SAR Result of LTE Band 2

Ant0 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	18900/1880	1:1	0.073	0.11	23.43	24.50	1.279	0.093	22.3
Left tilted	20	QPSK 1RB_0	18900/1880	1:1	0.055	-0.16	23.43	24.50	1.279	0.070	22.3
Right cheek	20	QPSK 1RB_0	18900/1880	1:1	0.080	0.19	23.43	24.50	1.279	0.103	22.3
Right tilted	20	QPSK 1RB_0	18900/1880	1:1	0.061	-0.02	23.43	24.50	1.279	0.078	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	18900/1880	1:1	0.068	-0.16	22.45	23.50	1.274	0.087	22.3
Left tilted	20	QPSK 50RB_0	18900/1880	1:1	0.042	-0.09	22.45	23.50	1.274	0.053	22.3
Right cheek	20	QPSK 50RB_0	18900/1880	1:1	0.081	0.09	22.45	23.50	1.274	0.103	22.3
Right tilted	20	QPSK 50RB_0	18900/1880	1:1	0.053	0.10	22.45	23.50	1.274	0.067	22.3
Head Test data at the worst case with battery 2											
Right cheek	20	QPSK 1RB_0	18900/1880	1:1	0.074	0.02	23.43	24.50	1.279	0.095	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	18900/1880	1:1	0.141	0.05	23.43	24.50	1.279	0.180	22.3
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.274	-0.12	23.43	24.50	1.279	0.351	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.137	0.08	22.45	23.50	1.274	0.174	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.222	-0.07	22.45	23.50	1.274	0.283	22.3
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.265	-0.14	23.43	24.50	1.279	0.339	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	18900/1880	1:1	0.161	-0.02	21.26	21.50	1.057	0.170	22.3
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.228	-0.06	21.26	21.50	1.057	0.241	22.3
Left side	20	QPSK 1RB_0	18900/1880	1:1	0.078	-0.02	21.26	21.50	1.057	0.083	22.3
Right side	20	QPSK 1RB_0	18900/1880	1:1	0.067	0.02	21.26	21.50	1.057	0.070	22.3
Bottom side	20	QPSK 1RB_0	18900/1880	1:1	0.358	0.10	21.26	21.50	1.057	0.378	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.156	-0.06	21.10	21.50	1.096	0.171	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.220	-0.06	21.10	21.50	1.096	0.241	22.3
Left side	20	QPSK 50RB_0	18900/1880	1:1	0.076	0.10	21.10	21.50	1.096	0.083	22.3
Right side	20	QPSK 50RB_0	18900/1880	1:1	0.065	0.01	21.10	21.50	1.096	0.072	22.3
Bottom side	20	QPSK 50RB_0	18900/1880	1:1	0.371	0.04	21.10	21.50	1.096	0.407	22.3
Hotspot Test data at the worst case with battery 2											
Bottom side	20	QPSK 50RB_0	18900/1880	1:1	0.361	0.11	21.10	21.50	1.096	0.396	22.3
Ant2 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	18900/1880	1:1	0.379	0.19	19.26	20.50	1.330	0.504	22.3
Left tilted	20	QPSK 1RB_0	18900/1880	1:1	0.473	-0.12	19.26	20.50	1.330	0.629	22.3
Right cheek	20	QPSK 1RB_0	18900/1880	1:1	0.277	-0.10	19.26	20.50	1.330	0.369	22.3
Right tilted	20	QPSK 1RB_0	18900/1880	1:1	0.455	0.08	19.26	20.50	1.330	0.605	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	18900/1880	1:1	0.380	0.02	19.30	20.50	1.318	0.501	22.3
Left tilted	20	QPSK 50RB_0	18900/1880	1:1	0.576	-0.07	19.30	20.50	1.318	0.759	22.3
Right cheek	20	QPSK 50RB_0	18900/1880	1:1	0.281	-0.15	19.30	20.50	1.318	0.370	22.3
Right tilted	20	QPSK 50RB_0	18900/1880	1:1	0.441	0.17	19.30	20.50	1.318	0.581	22.3
Head Test data at the worst case with battery 2											
Left tilted	20	QPSK 50RB_0	18900/1880	1:1	0.561	-0.01	19.30	20.50	1.318	0.740	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	18900/1880	1:1	0.076	0.01	20.02	21.00	1.253	0.095	22.3
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.169	0.05	20.02	21.00	1.253	0.212	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.075	-0.02	20.04	21.00	1.247	0.093	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.167	-0.13	20.04	21.00	1.247	0.208	22.3
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.162	-0.03	20.02	21.00	1.253	0.203	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	18900/1880	1:1	0.086	0.00	18.52	19.50	1.253	0.108	22.3
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.223	0.15	18.52	19.50	1.253	0.279	22.3
Left side	20	QPSK 1RB_0	18900/1880	1:1	0.025	-0.02	18.52	19.50	1.253	0.031	22.3
Right side	20	QPSK 1RB_0	18900/1880	1:1	0.034	0.03	18.52	19.50	1.253	0.043	22.3



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Top side	20	QPSK 1RB_0	18900/1880	1:1	0.316	0.02	18.52	19.50	1.253	0.396	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18900/1880	1:1	0.085	0.01	18.58	19.50	1.236	0.105	22.3
Back side	20	QPSK 50RB_0	18900/1880	1:1	0.219	-0.04	18.58	19.50	1.236	0.271	22.3
Left side	20	QPSK 50RB_0	18900/1880	1:1	0.024	-0.06	18.58	19.50	1.236	0.030	22.3
Right side	20	QPSK 50RB_0	18900/1880	1:1	0.036	-0.01	18.58	19.50	1.236	0.044	22.3
Top side	20	QPSK 50RB_0	18900/1880	1:1	0.311	0.09	18.58	19.50	1.236	0.384	22.3
Hotspot Test data at the worst case with battery 2											
Top side	20	QPSK 1RB_0	18900/1880	1:1	0.312	0.02	18.52	19.50	1.253	0.391	22.3

Table 6: SAR of LTE Band 2 for Head and Body.



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8.2.7 SAR Result of LTE Band 4

Ant0 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.073	-0.19	23.03	24.30	1.340	0.098	22.2
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.064	0.17	23.03	24.30	1.340	0.086	22.2
Right cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.091	-0.01	23.03	24.30	1.340	0.121	22.2
Right tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.061	-0.16	23.03	24.30	1.340	0.082	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.065	-0.15	21.98	23.30	1.355	0.088	22.2
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.051	0.06	21.98	23.30	1.355	0.103	22.2
Right cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.076	0.07	21.98	23.30	1.355	0.070	22.2
Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.052	-0.19	21.98	23.30	1.355	0.070	22.2
Head Test data at the worst case with battery 2											
Right cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.081	-0.15	23.03	24.30	1.340	0.109	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.139	0.03	23.03	24.30	1.340	0.186	22.2
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.203	0.00	23.03	24.30	1.340	0.272	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.135	0.07	21.98	23.30	1.355	0.183	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.167	-0.11	21.98	23.30	1.355	0.226	22.2
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.182	0.01	23.03	24.30	1.340	0.244	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.143	0.13	20.88	21.30	1.102	0.158	22.2
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.197	-0.01	20.88	21.30	1.102	0.217	22.2
Left side	20	QPSK 1RB_0	20175/1732.5	1:1	0.066	0.10	20.88	21.30	1.102	0.073	22.2
Right side	20	QPSK 1RB_0	20175/1732.5	1:1	0.047	0.19	20.88	21.30	1.102	0.051	22.2
Bottom side	20	QPSK 1RB_0	20175/1732.5	1:1	0.266	0.06	20.88	21.30	1.102	0.293	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.146	-0.01	20.96	21.30	1.081	0.158	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.179	-0.11	20.96	21.30	1.081	0.194	22.2
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.068	0.20	20.96	21.30	1.081	0.073	22.2
Right side	20	QPSK 50RB_0	20175/1732.5	1:1	0.048	0.03	20.96	21.30	1.081	0.052	22.2
Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	0.320	0.17	20.96	21.30	1.081	0.346	22.2
Hotspot Test data at the worst case with battery 2											
Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	0.285	0.03	20.96	21.30	1.081	0.308	22.2
Ant2 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.356	0.17	20.03	21.30	1.340	0.477	22.2
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.447	0.13	20.03	21.30	1.340	0.599	22.2
Right cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.257	-0.10	20.03	21.30	1.340	0.344	22.2
Right tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.411	0.08	20.03	21.30	1.340	0.551	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.354	0.06	20.15	21.30	1.303	0.461	22.2
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.481	-0.08	20.15	21.30	1.303	0.627	22.2
Right cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.263	-0.13	20.15	21.30	1.303	0.343	22.2
Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.425	-0.02	20.15	21.30	1.303	0.554	22.2
Head Test data at the worst case with battery 2											
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.449	-0.19	20.15	21.30	1.303	0.585	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.038	0.01	19.57	20.80	1.327	0.050	22.2
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.088	0.09	19.57	20.80	1.327	0.117	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.039	0.04	19.90	20.80	1.230	0.048	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.088	-0.11	19.90	20.80	1.230	0.108	22.2
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.088	0.09	19.57	20.80	1.327	0.117	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.050	0.10	18.17	19.30	1.297	0.064	22.2
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.125	0.01	18.17	19.30	1.297	0.162	22.2
Left side	20	QPSK 1RB_0	20175/1732.5	1:1	0.019	-0.02	18.17	19.30	1.297	0.025	22.2
Right side	20	QPSK 1RB_0	20175/1732.5	1:1	0.025	0.14	18.17	19.30	1.297	0.033	22.2



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Top side	20	QPSK 1RB_0	20175/1732.5	1:1	0.207	0.02	18.17	19.30	1.297	0.269	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.049	0.03	18.12	19.30	1.312	0.064	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.123	0.09	18.12	19.30	1.312	0.161	22.2
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.018	-0.08	18.12	19.30	1.312	0.024	22.2
Right side	20	QPSK 50RB_0	20175/1732.5	1:1	0.023	-0.08	18.12	19.30	1.312	0.030	22.2
Top side	20	QPSK 50RB_0	20175/1732.5	1:1	0.205	0.13	18.12	19.30	1.312	0.269	22.2
Hotspot Test data at the worst case with battery 2											
Top side	20	QPSK 1RB_0	20175/1732.5	1:1	0.184	0.04	18.17	19.30	1.297	0.239	22.2

Table 7: SAR of LTE Band 4 for Head and Body.



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8.2.8 SAR Result of LTE Band 5

Ant1 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.104	0.18	24.27	25.00	1.183	0.123	22.1
Left tilted	10	QPSK 1RB_0	20450/829	1:1	0.047	0.01	24.27	25.00	1.183	0.055	22.1
Right cheek	10	QPSK 1RB_0	20450/829	1:1	0.104	-0.19	24.27	25.00	1.183	0.123	22.1
Right tilted	10	QPSK 1RB_0	20450/829	1:1	0.055	0.05	24.27	25.00	1.183	0.065	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	20450/829	1:1	0.082	0.03	22.61	24.00	1.377	0.112	22.1
Left tilted	10	QPSK 25RB_25	20450/829	1:1	0.038	0.03	22.61	24.00	1.377	0.052	22.1
Right cheek	10	QPSK 25RB_25	20450/829	1:1	0.073	0.08	22.61	24.00	1.377	0.100	22.1
Right tilted	10	QPSK 25RB_25	20450/829	1:1	0.044	0.02	22.61	24.00	1.377	0.061	22.1
Head Test data at the worst case with battery 2											
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.103	0.08	24.27	25.00	1.183	0.122	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.123	-0.16	24.27	25.00	1.183	0.146	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.177	-0.09	24.27	25.00	1.183	0.209	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	20450/829	1:1	0.085	0.03	22.61	24.00	1.377	0.117	22.1
Back side	10	QPSK 25RB_25	20450/829	1:1	0.115	-0.09	22.61	24.00	1.377	0.158	22.1
Body worn Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_0	20450/829	1:1	0.130	0.06	24.27	25.00	1.183	0.154	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.167	-0.11	24.27	25.00	1.183	0.198	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.254	0.05	24.27	25.00	1.183	0.300	22.1
Left side	10	QPSK 1RB_0	20450/829	1:1	0.057	-0.01	24.27	25.00	1.183	0.067	22.1
Right side	10	QPSK 1RB_0	20450/829	1:1	0.063	-0.07	24.27	25.00	1.183	0.075	22.1
Bottom side	10	QPSK 1RB_0	20450/829	1:1	0.123	0.05	24.27	25.00	1.183	0.146	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	20450/829	1:1	0.152	-0.06	22.61	24.00	1.377	0.209	22.1
Back side	10	QPSK 25RB_25	20450/829	1:1	0.237	-0.07	22.61	24.00	1.377	0.326	22.1
Left side	10	QPSK 25RB_25	20450/829	1:1	0.054	0.12	22.61	24.00	1.377	0.074	22.1
Right side	10	QPSK 25RB_25	20450/829	1:1	0.057	-0.03	22.61	24.00	1.377	0.079	22.1
Bottom side	10	QPSK 25RB_25	20450/829	1:1	0.119	-0.08	22.61	24.00	1.377	0.164	22.1
Hotspot Test data at the worst case with battery 2											
Back side	10	QPSK 25RB_25	20450/829	1:1	0.227	-0.11	22.61	24.00	1.377	0.313	22.1
Ant3 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.050	-0.05	24.13	24.80	1.167	0.058	22.1
Left tilted	10	QPSK 1RB_0	20450/829	1:1	0.034	0.08	24.13	24.80	1.167	0.040	22.1
Right cheek	10	QPSK 1RB_0	20450/829	1:1	0.110	0.15	24.13	24.80	1.167	0.128	22.1
Right tilted	10	QPSK 1RB_0	20450/829	1:1	0.101	0.15	24.13	24.80	1.167	0.118	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	20450/829	1:1	0.057	-0.04	22.56	23.80	1.330	0.076	22.1
Left tilted	10	QPSK 25RB_25	20450/829	1:1	0.042	-0.17	22.56	23.80	1.330	0.056	22.1
Right cheek	10	QPSK 25RB_25	20450/829	1:1	0.103	-0.11	22.56	23.80	1.330	0.137	22.1
Right tilted	10	QPSK 25RB_25	20450/829	1:1	0.095	0.08	22.56	23.80	1.330	0.126	22.1
Head Test data at the worst case with battery 2											
Right cheek	10	QPSK 25RB_25	20450/829	1:1	0.0955	0.06	22.56	23.80	1.330	0.127	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.019	-0.08	24.13	24.80	1.167	0.022	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.029	-0.06	24.13	24.80	1.167	0.034	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	20450/829	1:1	0.011	-0.18	22.56	23.80	1.330	0.015	22.1
Back side	10	QPSK 25RB_25	20450/829	1:1	0.020	-0.13	22.56	23.80	1.330	0.027	22.1
Body worn Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_0	20450/829	1:1	0.021	-0.06	24.13	24.80	1.167	0.025	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.031	0.10	24.13	24.80	1.167	0.036	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.082	-0.13	24.13	24.80	1.167	0.096	22.1
Left side	10	QPSK 1RB_0	20450/829	1:1	0.055	-0.19	24.13	24.80	1.167	0.064	22.1
Right side	10	QPSK 1RB_0	20450/829	1:1	0.003	-0.05	24.13	24.80	1.167	0.004	22.1



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Top side	10	QPSK 1RB_0	20450/829	1:1	0.038	-0.03	24.13	24.80	1.167	0.045	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	20450/829	1:1	0.025	0.07	22.56	23.80	1.330	0.033	22.1
Back side	10	QPSK 25RB_25	20450/829	1:1	0.061	-0.03	22.56	23.80	1.330	0.081	22.1
Left side	10	QPSK 25RB_25	20450/829	1:1	0.039	0.19	22.56	23.80	1.330	0.052	22.1
Right side	10	QPSK 25RB_25	20450/829	1:1	0.036	-0.05	22.56	23.80	1.330	0.048	22.1
Top side	10	QPSK 25RB_25	20450/829	1:1	0.001	-0.11	22.56	23.80	1.330	0.001	22.1
Hotspot Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_0	20450/829	1:1	0.081	0.07	24.13	24.80	1.167	0.095	22.1

Table 8: SAR of LTE Band 5 for Head and Body.



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8.2.9 SAR Result of LTE Band 7

Ant0 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	20850/2510	1:1	0.098	0.08	22.39	23.20	1.205	0.118	22.1
Left tilted	20	QPSK 1RB_50	20850/2510	1:1	0.094	0.11	22.39	23.20	1.205	0.113	22.1
Right cheek	20	QPSK 1RB_50	20850/2510	1:1	0.086	-0.15	22.39	23.20	1.205	0.104	22.1
Right tilted	20	QPSK 1RB_50	20850/2510	1:1	0.069	-0.03	22.39	23.20	1.205	0.083	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.091	0.15	21.36	22.20	1.213	0.110	22.1
Left tilted	20	QPSK 50RB_50	20850/2510	1:1	0.079	0.03	21.36	22.20	1.213	0.096	22.1
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.080	-0.17	21.36	22.20	1.213	0.097	22.1
Right tilted	20	QPSK 50RB_50	20850/2510	1:1	0.059	0.07	21.36	22.20	1.213	0.072	22.1
Head Test data at the worst case with battery 2											
Left cheek	20	QPSK 1RB_50	20850/2510	1:1	0.095	0.05	22.39	23.20	1.205	0.115	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.154	-0.11	21.94	22.80	1.219	0.188	22.1
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.255	-0.19	21.94	22.80	1.219	0.311	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.109	-0.11	21.23	22.30	1.279	0.139	22.1
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.160	0.07	21.23	22.30	1.279	0.205	22.1
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.205	0.07	21.94	22.80	1.219	0.250	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.128	0.19	19.37	20.30	1.239	0.159	22.1
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.170	-0.10	19.37	20.30	1.239	0.211	22.1
Left side	20	QPSK 1RB_99	20850/2510	1:1	0.075	-0.19	19.37	20.30	1.239	0.093	22.1
Right side	20	QPSK 1RB_99	20850/2510	1:1	0.041	-0.13	19.37	20.30	1.239	0.051	22.1
Bottom side	20	QPSK 1RB_99	20850/2510	1:1	0.274	-0.09	19.37	20.30	1.239	0.339	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.136	0.04	19.16	20.30	1.300	0.177	22.1
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.179	0.00	19.16	20.30	1.300	0.233	22.1
Left side	20	QPSK 50RB_50	20850/2510	1:1	0.082	0.00	19.16	20.30	1.300	0.107	22.1
Right side	20	QPSK 50RB_50	20850/2510	1:1	0.047	-0.17	19.16	20.30	1.300	0.061	22.1
Bottom side	20	QPSK 50RB_50	20850/2510	1:1	0.499	0.16	19.16	20.30	1.300	0.649	22.1
Hotspot Test data at the worst case with battery 2											
Bottom side	20	QPSK 50RB_50	20850/2510	1:1	0.390	-0.07	19.16	20.30	1.300	0.507	22.1
Ant4 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	20850/2510	1:1	0.275	0.04	19.78	21.00	1.324	0.364	22.1
Left tilted	20	QPSK 1RB_99	20850/2510	1:1	0.152	0.01	19.78	21.00	1.324	0.201	22.1
Right cheek	20	QPSK 1RB_99	20850/2510	1:1	0.616	-0.03	19.78	21.00	1.324	0.816	22.1
Right tilted	20	QPSK 1RB_99	20850/2510	1:1	0.235	0.05	19.78	21.00	1.324	0.311	22.1
Right cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.621	0.07	19.75	21.00	1.334	0.828	22.1
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.675	0.03	19.68	21.00	1.355	0.915	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.352	-0.06	19.81	21.00	1.315	0.463	22.1
Left tilted	20	QPSK 50RB_50	20850/2510	1:1	0.149	-0.19	19.81	21.00	1.315	0.196	22.1
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.614	-0.04	19.81	21.00	1.315	0.808	22.1
Right tilted	20	QPSK 50RB_50	20850/2510	1:1	0.345	0.09	19.81	21.00	1.315	0.454	22.1
Right cheek	20	QPSK 50RB_50	21100/2535.5	1:1	0.681	0.01	19.78	21.00	1.324	0.902	22.1
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.719	0.11	19.67	21.00	1.358	0.977	22.1
Head Test data(100%RB)											
Right cheek	20	QPSK 100RB_0	20850/2510	1:1	0.601	0.01	19.95	21.00	1.274	0.765	22.1
Head Test data at the worst case with battery 2											
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.700	0.02	19.67	21.00	1.358	0.951	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.162	-0.11	19.78	21.00	1.324	0.215	22.1
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.218	0.07	19.78	21.00	1.324	0.289	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.150	-0.15	19.81	21.00	1.315	0.197	22.1



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Back side	20	QPSK 50RB_50	20850/2510	1:1	0.195	-0.17	19.81	21.00	1.315	0.256	22.1
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.173	0.05	19.78	21.00	1.324	0.229	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.101	-0.12	18.47	19.50	1.268	0.128	22.1
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.192	-0.07	18.47	19.50	1.268	0.243	22.1
Left side	20	QPSK 1RB_99	20850/2510	1:1	0.212	-0.06	18.47	19.50	1.268	0.269	22.1
Right side	20	QPSK 1RB_99	20850/2510	1:1	0.002	0.16	18.47	19.50	1.268	0.003	22.1
Top side	20	QPSK 1RB_99	20850/2510	1:1	0.029	0.07	18.47	19.50	1.268	0.037	22.1
Hotspot Test data at the worst case with battery 2											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.112	0.13	18.34	19.50	1.306	0.146	22.1
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.212	0.16	18.34	19.50	1.306	0.277	22.1
Left side	20	QPSK 50RB_50	20850/2510	1:1	0.374	0.05	18.34	19.50	1.306	0.489	22.1
Right side	20	QPSK 50RB_50	20850/2510	1:1	0.003	0.11	18.34	19.50	1.306	0.004	22.1
Top side	20	QPSK 50RB_50	20850/2510	1:1	0.050	-0.18	18.34	19.50	1.306	0.065	22.1
Body worn Test data at the worst case with battery 2											
Left side	20	QPSK 50RB_50	20850/2510	1:1	0.274	-0.07	18.34	19.50	1.306	0.358	22.1

Table 9: SAR of LTE Band 7 for Head and Body.



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8.2.10 SAR Result of LTE Band 12

Ant1 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.067	0.09	24.15	25.00	1.216	0.081	22.1
Left tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.031	0.05	24.15	25.00	1.216	0.038	22.1
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.061	0.03	24.15	25.00	1.216	0.074	22.1
Right tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.039	0.03	24.15	25.00	1.216	0.047	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23095/707.5	1:1	0.050	0.02	22.83	24.00	1.309	0.065	22.1
Left tilted	10	QPSK 25RB_13	23095/707.5	1:1	0.024	0.07	22.83	24.00	1.309	0.032	22.1
Right cheek	10	QPSK 25RB_13	23095/707.5	1:1	0.043	0.08	22.83	24.00	1.309	0.057	22.1
Right tilted	10	QPSK 25RB_13	23095/707.5	1:1	0.029	0.03	22.83	24.00	1.309	0.038	22.1
Head Test data at the worst case with battery 2											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.062	0.03	24.15	25.00	1.216	0.075	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_49	23095/707.5	1:1	0.105	-0.10	24.15	25.00	1.216	0.128	22.1
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.156	0.02	24.15	25.00	1.216	0.190	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_13	23095/707.5	1:1	0.084	-0.01	22.83	24.00	1.309	0.110	22.1
Back side	10	QPSK 25RB_13	23095/707.5	1:1	0.116	-0.10	22.83	24.00	1.309	0.152	22.1
Body worn Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.151	0.02	24.15	25.00	1.216	0.184	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23095/707.5	1:1	0.122	-0.15	24.15	25.00	1.216	0.148	22.1
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.185	0.08	24.15	25.00	1.216	0.225	22.1
Left side	10	QPSK 1RB_49	23095/707.5	1:1	0.064	-0.08	24.15	25.00	1.216	0.078	22.1
Right side	10	QPSK 1RB_49	23095/707.5	1:1	0.069	-0.10	24.15	25.00	1.216	0.084	22.1
Bottom side	10	QPSK 1RB_49	23095/707.5	1:1	0.078	0.18	24.15	25.00	1.216	0.095	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23095/707.5	1:1	0.124	0.18	22.83	24.00	1.309	0.162	22.1
Back side	10	QPSK 25RB_13	23095/707.5	1:1	0.188	-0.06	22.83	24.00	1.309	0.246	22.1
Left side	10	QPSK 25RB_13	23095/707.5	1:1	0.064	-0.02	22.83	24.00	1.309	0.084	22.1
Right side	10	QPSK 25RB_13	23095/707.5	1:1	0.072	-0.11	22.83	24.00	1.309	0.094	22.1
Bottom side	10	QPSK 25RB_13	23095/707.5	1:1	0.080	0.16	22.83	24.00	1.309	0.105	22.1
Hotspot Test data at the worst case with battery 2											
Back side	10	QPSK 25RB_13	23095/707.5	1:1	0.182	0.03	22.83	24.00	1.309	0.238	22.1
Ant3 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23130/711	1:1	0.041	-0.02	24.21	24.90	1.172	0.048	22.1
Left tilted	10	QPSK 1RB_49	23130/711	1:1	0.034	0.10	24.21	24.90	1.172	0.040	22.1
Right cheek	10	QPSK 1RB_49	23130/711	1:1	0.071	-0.13	24.21	24.90	1.172	0.083	22.1
Right tilted	10	QPSK 1RB_49	23130/711	1:1	0.062	0.04	24.21	24.90	1.172	0.073	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23130/711	1:1	0.046	0.09	22.82	23.90	1.282	0.059	22.1
Left tilted	10	QPSK 25RB_13	23130/711	1:1	0.039	-0.15	22.82	23.90	1.282	0.050	22.1
Right cheek	10	QPSK 25RB_13	23130/711	1:1	0.075	0.04	22.82	23.90	1.282	0.096	22.1
Right tilted	10	QPSK 25RB_13	23130/711	1:1	0.061	0.18	22.82	23.90	1.282	0.078	22.1
Head Test data at the worst case with battery 2											
Right cheek	10	QPSK 25RB_13	23130/711	1:1	0.071	0.03	22.82	23.90	1.282	0.092	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_49	23130/711	1:1	0.013	-0.09	24.21	24.90	1.172	0.015	22.1
Back side	10	QPSK 1RB_49	23130/711	1:1	0.026	-0.10	24.21	24.90	1.172	0.030	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_13	23130/711	1:1	0.018	0.13	22.82	23.90	1.282	0.023	22.1
Back side	10	QPSK 25RB_13	23130/711	1:1	0.028	0.02	22.82	23.90	1.282	0.036	22.1
Body worn Test data at the worst case with battery 2											
Back side	10	QPSK 25RB_13	23130/711	1:1	0.021	0.02	22.82	23.90	1.282	0.027	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23130/711	1:1	0.041	-0.08	24.21	24.90	1.172	0.048	22.1
Back side	10	QPSK 1RB_49	23130/711	1:1	0.058	-0.06	24.21	24.90	1.172	0.068	22.1
Left side	10	QPSK 1RB_49	23130/711	1:1	0.056	0.11	24.21	24.90	1.172	0.066	22.1
Right side	10	QPSK 1RB_49	23130/711	1:1	0.029	-0.04	24.21	24.90	1.172	0.034	22.1



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Top side	10	QPSK 1RB_49	23130/711	1:1	0.034	-0.03	24.21	24.90	1.172	0.040	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_13	23130/711	1:1	0.025	-0.12	22.82	23.90	1.282	0.032	22.1
Back side	10	QPSK 25RB_13	23130/711	1:1	0.048	0.13	22.82	23.90	1.282	0.062	22.1
Left side	10	QPSK 25RB_13	23130/711	1:1	0.048	-0.18	22.82	23.90	1.282	0.062	22.1
Right side	10	QPSK 25RB_13	23130/711	1:1	0.022	0.03	22.82	23.90	1.282	0.028	22.1
Top side	10	QPSK 25RB_13	23130/711	1:1	0.026	0.17	22.82	23.90	1.282	0.034	22.1
Hotspot Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_49	23130/711	1:1	0.047	-0.01	24.21	24.90	1.172	0.055	22.1

Table 10: SAR of LTE Band 12 for Head and Body.



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8.2.11 SAR Result of LTE Band 17

Ant1 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_25	23790/710	1:1	0.053	0.04	23.87	25.00	1.297	0.069	22.1
Left tilted	10	QPSK 1RB_25	23790/710	1:1	0.025	0.07	23.87	25.00	1.297	0.033	22.1
Right cheek	10	QPSK 1RB_25	23790/710	1:1	0.048	0.16	23.87	25.00	1.297	0.063	22.1
Right tilted	10	QPSK 1RB_25	23790/710	1:1	0.030	0.02	23.87	25.00	1.297	0.039	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	23800/711	1:1	0.049	0.11	22.97	24.00	1.268	0.061	22.1
Left tilted	10	QPSK 25RB_25	23800/711	1:1	0.024	0.09	22.97	24.00	1.268	0.030	22.1
Right cheek	10	QPSK 25RB_25	23800/711	1:1	0.042	0.17	22.97	24.00	1.268	0.053	22.1
Right tilted	10	QPSK 25RB_25	23800/711	1:1	0.028	0.09	22.97	24.00	1.268	0.035	22.1
Head Test data at the worst case with battery 2											
Left cheek	10	QPSK 1RB_25	23790/710	1:1	0.045	0.05	23.87	25.00	1.297	0.058	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_25	23790/710	1:1	0.105	0.13	23.87	25.00	1.297	0.136	22.1
Back side	10	QPSK 1RB_25	23790/710	1:1	0.160	0.01	23.87	25.00	1.297	0.208	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	23800/711	1:1	0.075	0.16	22.97	24.00	1.268	0.095	22.1
Back side	10	QPSK 25RB_25	23800/711	1:1	0.112	-0.02	22.97	24.00	1.268	0.142	22.1
Body worn Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_25	23790/710	1:1	0.152	0.01	23.87	25.00	1.297	0.197	22.10
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	23790/710	1:1	0.122	-0.05	23.87	25.00	1.297	0.158	22.1
Back side	10	QPSK 1RB_25	23790/710	1:1	0.233	-0.05	23.87	25.00	1.297	0.302	22.1
Left side	10	QPSK 1RB_25	23790/710	1:1	0.063	0.02	23.87	25.00	1.297	0.082	22.1
Right side	10	QPSK 1RB_25	23790/710	1:1	0.071	0.19	23.87	25.00	1.297	0.092	22.1
Bottom side	10	QPSK 1RB_25	23790/710	1:1	0.077	-0.04	23.87	25.00	1.297	0.100	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23800/711	1:1	0.132	0.15	22.97	24.00	1.268	0.167	22.1
Back side	10	QPSK 25RB_25	23800/711	1:1	0.218	0.07	22.97	24.00	1.268	0.276	22.1
Left side	10	QPSK 25RB_25	23800/711	1:1	0.065	-0.06	22.97	24.00	1.268	0.082	22.1
Right side	10	QPSK 25RB_25	23800/711	1:1	0.073	-0.10	22.97	24.00	1.268	0.093	22.1
Bottom side	10	QPSK 25RB_25	23800/711	1:1	0.080	-0.09	22.97	24.00	1.268	0.101	22.1
Hotspot Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_25	23790/710	1:1	0.222	-0.05	23.87	25.00	1.297	0.288	22.1
Ant3 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_25	23800/711	1:1	0.040	-0.10	23.62	24.90	1.343	0.054	22.1
Left tilted	10	QPSK 1RB_25	23800/711	1:1	0.033	0.09	23.62	24.90	1.343	0.044	22.1
Right cheek	10	QPSK 1RB_25	23800/711	1:1	0.087	0.05	23.62	24.90	1.343	0.117	22.1
Right tilted	10	QPSK 1RB_25	23800/711	1:1	0.075	0.17	23.62	24.90	1.343	0.101	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	23800/711	1:1	0.042	0.14	22.87	23.90	1.268	0.053	22.1
Left tilted	10	QPSK 25RB_25	23800/711	1:1	0.034	0.01	22.87	23.90	1.268	0.043	22.1
Right cheek	10	QPSK 25RB_25	23800/711	1:1	0.096	-0.05	22.87	23.90	1.268	0.122	22.1
Right tilted	10	QPSK 25RB_25	23800/711	1:1	0.081	-0.16	22.87	23.90	1.268	0.103	22.1
Head Test data at the worst case with battery 2											
Right cheek	10	QPSK 25RB_25	23800/711	1:1	0.070	0.04	22.87	23.90	1.268	0.089	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_25	23800/711	1:1	0.016	-0.04	23.62	24.90	1.343	0.021	22.1
Back side	10	QPSK 1RB_25	23800/711	1:1	0.028	-0.02	23.62	24.90	1.343	0.037	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	23800/711	1:1	0.010	0.12	22.87	23.90	1.268	0.013	22.1
Back side	10	QPSK 25RB_25	23800/711	1:1	0.022	-0.10	22.87	23.90	1.268	0.028	22.1
Body worn Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_25	23800/711	1:1	0.025	-0.02	23.62	24.90	1.343	0.034	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	23800/711	1:1	0.035	-0.17	23.62	24.90	1.343	0.047	22.1
Back side	10	QPSK 1RB_25	23800/711	1:1	0.058	-0.10	23.62	24.90	1.343	0.078	22.1
Left side	10	QPSK 1RB_25	23800/711	1:1	0.058	0.05	23.62	24.90	1.343	0.078	22.1
Right side	10	QPSK 1RB_25	23800/711	1:1	0.033	-0.02	23.62	24.90	1.343	0.045	22.1



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Top side	10	QPSK 1RB_25	23800/711	1:1	0.031	-0.18	23.62	24.90	1.343	0.042	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23800/711	1:1	0.027	0.16	22.87	23.90	1.268	0.034	22.1
Back side	10	QPSK 25RB_25	23800/711	1:1	0.048	0.16	22.87	23.90	1.268	0.061	22.1
Left side	10	QPSK 25RB_25	23800/711	1:1	0.051	0.00	22.87	23.90	1.268	0.065	22.1
Right side	10	QPSK 25RB_25	23800/711	1:1	0.031	0.07	22.87	23.90	1.268	0.039	22.1
Top side	10	QPSK 25RB_25	23800/711	1:1	0.028	0.00	22.87	23.90	1.268	0.035	22.1
Hotspot Test data at the worst case with battery 2											
Back side	10	QPSK 1RB_25	23800/711	1:1	0.051	0.01	23.62	24.90	1.343	0.068	22.1

Table 11: SAR of LTE Band 17 for Head and Body.



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8.2.12 SAR Result of LTE Band 26

Ant1 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_74	26865/831.5	1:1	0.085	0.04	23.94	25.00	1.276	0.108	22.1
Left tilted	15	QPSK 1RB_74	26865/831.5	1:1	0.039	0.01	23.94	25.00	1.276	0.050	22.1
Right cheek	15	QPSK 1RB_74	26865/831.5	1:1	0.078	0.06	23.94	25.00	1.276	0.099	22.1
Right tilted	15	QPSK 1RB_74	26865/831.5	1:1	0.047	0.03	23.94	25.00	1.276	0.061	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_36	26765/821.5	1:1	0.074	0.06	22.85	24.00	1.303	0.096	22.1
Left tilted	15	QPSK 36RB_36	26765/821.5	1:1	0.037	0.04	22.85	24.00	1.303	0.048	22.1
Right cheek	15	QPSK 36RB_36	26765/821.5	1:1	0.075	0.09	22.85	24.00	1.303	0.098	22.1
Right tilted	15	QPSK 36RB_36	26765/821.5	1:1	0.045	0.02	22.85	24.00	1.303	0.059	22.1
Head Test data at the worst case with battery 2											
Left cheek	15	QPSK 1RB_74	26865/831.5	1:1	0.081	0.03	23.94	25.00	1.276	0.103	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1RB_74	26865/831.5	1:1	0.128	0.06	23.94	25.00	1.276	0.163	22.1
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.193	-0.01	23.94	25.00	1.276	0.246	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	15	QPSK 36RB_36	26765/821.5	1:1	0.112	-0.16	22.85	24.00	1.303	0.146	22.1
Back side	15	QPSK 36RB_36	26765/821.5	1:1	0.124	-0.13	22.85	24.00	1.303	0.162	22.1
Body worn Test data at the worst case with battery 2											
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.180	-0.01	23.94	25.00	1.276	0.230	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_74	26865/831.5	1:1	0.217	-0.03	23.94	25.00	1.276	0.277	22.1
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.309	0.05	23.94	25.00	1.276	0.394	22.1
Left side	15	QPSK 1RB_74	26865/831.5	1:1	0.081	0.06	23.94	25.00	1.276	0.103	22.1
Right side	15	QPSK 1RB_74	26865/831.5	1:1	0.089	-0.09	23.94	25.00	1.276	0.114	22.1
Bottom side	15	QPSK 1RB_74	26865/831.5	1:1	0.168	0.18	23.94	25.00	1.276	0.214	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_36	26765/821.5	1:1	0.195	-0.10	22.85	24.00	1.303	0.254	22.1
Back side	15	QPSK 36RB_36	26765/821.5	1:1	0.231	0.07	22.85	24.00	1.303	0.301	22.1
Left side	15	QPSK 36RB_36	26765/821.5	1:1	0.068	-0.18	22.85	24.00	1.303	0.089	22.1
Right side	15	QPSK 36RB_36	26765/821.5	1:1	0.073	-0.10	22.85	24.00	1.303	0.095	22.1
Bottom side	15	QPSK 36RB_36	26765/821.5	1:1	0.138	0.07	22.85	24.00	1.303	0.180	22.1
Hotspot Test data at the worst case with battery 2											
Back side	15	QPSK 1RB_74	26865/831.5	1:1	0.275	0.14	23.94	25.00	1.276	0.351	22.1
Ant3 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_0	26865/831.5	1:1	0.069	-0.19	23.62	24.80	1.312	0.091	22.1
Left tilted	15	QPSK 1RB_0	26865/831.5	1:1	0.047	-0.10	23.62	24.80	1.312	0.062	22.1
Right cheek	15	QPSK 1RB_0	26865/831.5	1:1	0.095	-0.05	23.62	24.80	1.312	0.125	22.1
Right tilted	15	QPSK 1RB_0	26865/831.5	1:1	0.075	-0.13	23.62	24.80	1.312	0.098	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_18	26865/831.5	1:1	0.073	-0.11	22.74	23.80	1.276	0.093	22.1
Left tilted	15	QPSK 36RB_18	26865/831.5	1:1	0.054	0.17	22.74	23.80	1.276	0.069	22.1
Right cheek	15	QPSK 36RB_18	26865/831.5	1:1	0.107	0.02	22.74	23.80	1.276	0.137	22.1
Right tilted	15	QPSK 36RB_18	26865/831.5	1:1	0.085	-0.03	22.74	23.80	1.276	0.108	22.1
Head Test data at the worst case with battery 2											
Right cheek	15	QPSK 36RB_18	26865/831.5	1:1	0.102	0.18	22.74	23.80	1.276	0.130	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1RB_0	26865/831.5	1:1	0.013	0.11	23.62	24.80	1.312	0.017	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.030	-0.02	23.62	24.80	1.312	0.039	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	15	QPSK 36RB_18	26865/831.5	1:1	0.009	-0.11	22.74	23.80	1.276	0.011	22.1
Back side	15	QPSK 36RB_18	26865/831.5	1:1	0.016	-0.08	22.74	23.80	1.276	0.020	22.1
Body worn Test data at the worst case with battery 2											
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.027	0.07	23.62	24.80	1.312	0.035	22.1
Body worn Test data at the worst case with battery 2											
Front side	15	QPSK 1RB_0	26865/831.5	1:1	0.026	-0.13	23.62	24.80	1.312	0.034	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.069	-0.02	23.62	24.80	1.312	0.091	22.1
Left side	15	QPSK 1RB_0	26865/831.5	1:1	0.051	0.14	23.62	24.80	1.312	0.067	22.1
Right side	15	QPSK 1RB_0	26865/831.5	1:1	0.003	-0.07	23.62	24.80	1.312	0.004	22.1



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Top side	15	QPSK 1RB_0	26865/831.5	1:1	0.038	0.04	23.62	24.80	1.312	0.050	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_18	26865/831.5	1:1	0.019	0.06	22.74	23.80	1.276	0.024	22.1
Back side	15	QPSK 36RB_18	26865/831.5	1:1	0.062	-0.03	22.74	23.80	1.276	0.079	22.1
Left side	15	QPSK 36RB_18	26865/831.5	1:1	0.046	0.10	22.74	23.80	1.276	0.059	22.1
Right side	15	QPSK 36RB_18	26865/831.5	1:1	0.001	-0.06	22.74	23.80	1.276	0.001	22.1
Top side	15	QPSK 36RB_18	26865/831.5	1:1	0.034	0.10	22.74	23.80	1.276	0.044	22.1
Hotspot Test data at the worst case with battery 2											
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.062	0.14	23.62	24.80	1.312	0.081	22.1

Table 12: SAR of LTE Band 26 for Head and Body.



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8.2.13 SAR Result of LTE Band 66

Ant0 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	132322/1745	1:1	0.069	0.08	22.56	23.30	1.186	0.082	22.1
Left tilted	20	QPSK 1RB_50	132322/1745	1:1	0.051	0.04	22.56	23.30	1.186	0.061	22.1
Right cheek	20	QPSK 1RB_50	132322/1745	1:1	0.096	-0.09	22.56	23.30	1.186	0.114	22.1
Right tilted	20	QPSK 1RB_50	132322/1745	1:1	0.027	-0.07	22.56	23.30	1.186	0.031	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	132322/1745	1:1	0.060	0.07	21.38	22.30	1.236	0.075	22.1
Left tilted	20	QPSK 50RB_25	132322/1745	1:1	0.043	0.07	21.38	22.30	1.236	0.053	22.1
Right cheek	20	QPSK 50RB_25	132322/1745	1:1	0.081	0.05	21.38	22.30	1.236	0.100	22.1
Right tilted	20	QPSK 50RB_25	132322/1745	1:1	0.025	0.07	21.38	22.30	1.236	0.031	22.1
Head Test data at the worst case with battery 2											
Right cheek	20	QPSK 1RB_50	132322/1745	1:1	0.094	0.06	22.56	23.30	1.186	0.111	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	132322/1745	1:1	0.137	0.07	21.82	22.80	1.253	0.172	22.1
Back side	20	QPSK 1RB_50	132322/1745	1:1	0.161	-0.04	21.82	22.80	1.253	0.202	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_25	132322/1745	1:1	0.119	0.09	21.36	22.30	1.242	0.148	22.1
Back side	20	QPSK 50RB_25	132322/1745	1:1	0.147	0.01	21.36	22.30	1.242	0.183	22.1
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 1RB_50	132322/1745	1:1	0.153	-0.03	21.82	22.80	1.253	0.192	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	132322/1745	1:1	0.158	-0.08	20.28	20.80	1.127	0.178	22.1
Back side	20	QPSK 1RB_50	132322/1745	1:1	0.195	0.03	20.28	20.80	1.127	0.220	22.1
Left side	20	QPSK 1RB_50	132322/1745	1:1	0.072	0.01	20.28	20.80	1.127	0.081	22.1
Right side	20	QPSK 1RB_50	132322/1745	1:1	0.053	0.19	20.28	20.80	1.127	0.059	22.1
Bottom side	20	QPSK 1RB_50	132322/1745	1:1	0.292	0.03	20.28	20.80	1.127	0.329	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132322/1745	1:1	0.155	0.04	20.25	20.80	1.135	0.176	22.1
Back side	20	QPSK 50RB_25	132322/1745	1:1	0.192	0.03	20.25	20.80	1.135	0.218	22.1
Left side	20	QPSK 50RB_25	132322/1745	1:1	0.069	0.09	20.25	20.80	1.135	0.078	22.1
Right side	20	QPSK 50RB_25	132322/1745	1:1	0.051	0.12	20.25	20.80	1.135	0.058	22.1
Bottom side	20	QPSK 50RB_25	132322/1745	1:1	0.265	0.20	20.25	20.80	1.135	0.301	22.1
Hotspot Test data at the worst case with battery 2											
Bottom side	20	QPSK 1RB_50	132322/1745	1:1	0.266	0.06	20.28	20.80	1.127	0.300	22.1
Ant2 Test Record											
Test position	BW.	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(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	132322/1745	1:1	0.306	-0.04	19.42	20.30	1.225	0.375	22.1
Left tilted	20	QPSK 1RB_50	132322/1745	1:1	0.370	-0.15	19.42	20.30	1.225	0.453	22.1
Right cheek	20	QPSK 1RB_50	132322/1745	1:1	0.224	-0.02	19.42	20.30	1.225	0.274	22.1
Right tilted	20	QPSK 1RB_50	132322/1745	1:1	0.295	-0.07	19.42	20.30	1.225	0.361	22.1
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_25	132322/1745	1:1	0.312	-0.13	19.51	20.30	1.199	0.374	22.1
Left tilted	20	QPSK 50RB_25	132322/1745	1:1	0.378	0.18	19.51	20.30	1.199	0.453	22.1
Right cheek	20	QPSK 50RB_25	132322/1745	1:1	0.224	-0.02	19.51	20.30	1.199	0.269	22.1
Right tilted	20	QPSK 50RB_25	132322/1745	1:1	0.297	-0.05	19.51	20.30	1.199	0.356	22.1
Head Test data at the worst case with battery 2											
Left tilted	20	QPSK 50RB_25	132322/1745	1:1	0.368	0.08	19.51	20.30	1.199	0.441	22.1
Body worn Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	132322/1745	1:1	0.032	-0.01	19.10	19.80	1.175	0.038	22.1
Back side	20	QPSK 1RB_50	132322/1745	1:1	0.077	-0.12	19.10	19.80	1.175	0.090	22.1
Body worn Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132322/1745	1:1	0.032	0.16	18.95	19.80	1.216	0.039	22.1
Back side	20	QPSK 50RB_25	132322/1745	1:1	0.077	0.05	18.95	19.80	1.216	0.094	22.1
Body worn Test data at the worst case with battery 2											
Back side	20	QPSK 50RB_25	132322/1745	1:1	0.071	0.01	18.95	19.80	1.216	0.086	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	132322/1745	1:1	0.039	0.02	17.59	18.30	1.178	0.046	22.1
Back side	20	QPSK 1RB_50	132322/1745	1:1	0.099	0.14	17.59	18.30	1.178	0.117	22.1
Left side	20	QPSK 1RB_50	132322/1745	1:1	0.014	-0.01	17.59	18.30	1.178	0.017	22.1
Right side	20	QPSK 1RB_50	132322/1745	1:1	0.021	0.03	17.59	18.30	1.178	0.025	22.1



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Top side	20	QPSK 1RB_50	132322/1745	1:1	0.167	0.15	17.59	18.30	1.178	0.197	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_25	132322/1745	1:1	0.039	0.16	17.55	18.30	1.189	0.046	22.1
Back side	20	QPSK 50RB_25	132322/1745	1:1	0.100	-0.01	17.55	18.30	1.189	0.119	22.1
Left side	20	QPSK 50RB_25	132322/1745	1:1	0.015	-0.17	17.55	18.30	1.189	0.018	22.1
Right side	20	QPSK 50RB_25	132322/1745	1:1	0.022	0.14	17.55	18.30	1.189	0.026	22.1
Top side	20	QPSK 50RB_25	132322/1745	1:1	0.168	0.16	17.55	18.30	1.189	0.200	22.1
Hotspot Test data at the worst case with battery 2											
Top side	20	QPSK 50RB_25	132322/1745	1:1	0.162	0.08	17.55	18.30	1.189	0.193	22.1

Table 13: SAR of LTE Band 66 for Head and Body.



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8.2.14 SAR Result of WIFI 2.4G

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	11/2462	98.65%	1.014	0.108	0.06	11.64	12.00	1.086	0.119	22
Left tilted	802.11b	11/2462	98.65%	1.014	0.023	0.01	11.64	12.00	1.086	0.025	22
Right cheek	802.11b	11/2462	98.65%	1.014	0.020	0.03	11.64	12.00	1.086	0.022	22
Right tilted	802.11b	11/2462	98.65%	1.014	0.008	0.08	11.64	12.00	1.086	0.009	22
Head Test data at the worst case with Battery2#											
Left cheek	802.11b	11/2462	98.65%	1.014	0.100	0.01	11.64	12.00	1.086	0.110	22
Body worn Test data(Separate 15mm)											
Front side	802.11b	11/2462	98.65%	1.014	0.039	-0.17	17.89	18.50	1.151	0.046	22
Back side	802.11b	11/2462	98.65%	1.014	0.084	0.17	17.89	18.50	1.151	0.098	22
Body worn Test data at the worst case with Battery2#(Separate 15mm)											
Back side	802.11b	11/2462	98.65%	1.014	0.079	-0.11	17.89	18.50	1.151	0.093	22
Hotspot Test data (Separate 10mm)											
Front side	802.11b	11/2462	98.65%	1.014	0.093	0.09	17.89	18.50	1.151	0.109	22
Back side	802.11b	11/2462	98.65%	1.014	0.209	0.04	17.89	18.50	1.151	0.244	22
Left side	802.11b	11/2462	98.65%	1.014	0.067	0.04	17.89	18.50	1.151	0.078	22
Right side	802.11b	11/2462	98.65%	1.014	0.303	0.02	17.89	18.50	1.151	0.353	22
Top side	802.11b	11/2462	98.65%	1.014	0.019	0.12	17.89	18.50	1.151	0.022	22
Hotspot Test data at the worst case with Battery2#(Separate 10mm)											
Right side	802.11b	11/2462	98.65%	1.014	0.293	0.10	17.89	18.50	1.151	0.342	22

Table 14: SAR of WIFI 2.4G for Head and Body.



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8.2.15 SAR Result of WIFI 5G

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	802.11n 40M	54/5270	97.95%	1.021	0.037	-0.08	11.14	12.00	1.219	0.046	22.2
Left tilted	802.11n 40M	54/5270	97.95%	1.021	0.005	0.04	11.14	12.00	1.219	0.006	22.2
Right cheek	802.11n 40M	54/5270	97.95%	1.021	0.034	0.03	11.14	12.00	1.219	0.042	22.2
Right tilted	802.11n 40M	54/5270	97.95%	1.021	0.002	0.02	11.14	12.00	1.219	0.002	22.2
Head Test data of U-NII-2C											
Left cheek	802.11ac.80M	122/5610	92.00%	1.087	0.133	0.11	11.34	12.00	1.164	0.168	22.2
Left tilted	802.11ac.80M	122/5610	92.00%	1.087	0.041	0.05	11.34	12.00	1.164	0.052	22.2
Right cheek	802.11ac.80M	122/5610	92.00%	1.087	0.046	-0.19	11.34	12.00	1.164	0.058	22.2
Right tilted	802.11ac.80M	122/5610	92.00%	1.087	0.011	0.17	11.34	12.00	1.164	0.014	22.2
Head Test data of U-NII-3											
Left cheek	802.11ac.80M	155/5775	92.00%	1.087	0.062	0.03	11.28	12.00	1.180	0.080	22.2
Left tilted	802.11ac.80M	155/5775	92.00%	1.087	0.024	0.03	11.28	12.00	1.180	0.030	22.2
Right cheek	802.11ac.80M	155/5775	92.00%	1.087	0.060	0.09	11.28	12.00	1.180	0.077	22.2
Right tilted	802.11ac.80M	155/5775	92.00%	1.087	0.018	0.18	11.28	12.00	1.180	0.023	22.2
Head Test data at the worst case with Battery2#											
Left cheek	802.11ac.80M	122/5610	92.00%	1.087	0.115	0.11	11.34	12.00	1.164	0.146	22.2
Body worn Test data of U-NII-2A (Separate 15mm)											
Front side	802.11a	52/5260	98.09%	1.019	0.065	-0.15	18.42	19.00	1.143	0.076	22.2
Back side	802.11a	52/5260	98.09%	1.019	0.130	-0.15	18.42	19.00	1.143	0.151	22.2
Body worn Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	104/5520	98.09%	1.019	0.096	0.14	17.89	19.00	1.291	0.126	22.2
Back side	802.11a	104/5520	98.09%	1.019	0.259	0.10	17.89	19.00	1.291	0.341	22.2
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	98.09%	1.019	0.106	0.01	17.69	19.00	1.352	0.146	22.2
Back side	802.11a	157/5785	98.09%	1.019	0.127	0.14	17.69	19.00	1.352	0.175	22.2
Body worn Test data at the worst case with Battery2#(Separate 15mm)											
Back side	802.11a	104/5520	98.09%	1.019	0.237	0.06	17.89	19.00	1.291	0.312	22.2
Hotspot Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	40/5200	98.09%	1.019	0.067	-0.03	18.68	19.00	1.076	0.074	22.2
Back side	802.11a	40/5200	98.09%	1.019	0.144	0.09	18.68	19.00	1.076	0.158	22.2
Left side	802.11a	40/5200	98.09%	1.019	0.058	0.05	18.68	19.00	1.076	0.064	22.2
Right side	802.11a	40/5200	98.09%	1.019	0.225	-0.10	18.68	19.00	1.076	0.247	22.2
Top side	802.11a	40/5200	98.09%	1.019	0.069	-0.01	18.68	19.00	1.076	0.076	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	98.09%	1.019	0.115	-0.15	17.69	19.00	1.352	0.159	22.2
Back side	802.11a	157/5785	98.09%	1.019	0.215	0.07	17.69	19.00	1.352	0.296	22.2
Left side	802.11a	157/5785	98.09%	1.019	0.090	-0.12	17.69	19.00	1.352	0.124	22.2
Right side	802.11a	157/5785	98.09%	1.019	0.337	0.01	17.69	19.00	1.352	0.465	22.2
Top side	802.11a	157/5785	98.09%	1.019	0.105	0.17	17.69	19.00	1.352	0.145	22.2
Hotspot Test data at the worst case with Battery2#(Separate 10mm)											
Right side	802.11a	157/5785	98.09%	1.019	0.327	0.01	17.69	19.00	1.352	0.451	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 10gSAR Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	52/5260	98.09%	1.019	0.277	-0.15	18.42	19.00	1.143	0.323	22.2
Back side	802.11a	52/5260	98.09%	1.019	0.357	0.16	18.42	19.00	1.143	0.416	22.2
Left side	802.11a	52/5260	98.09%	1.019	0.080	0.06	18.42	19.00	1.143	0.093	22.2
Right side	802.11a	52/5260	98.09%	1.019	0.912	0.02	18.42	19.00	1.143	1.063	22.2
Top side	802.11a	52/5260	98.09%	1.019	0.074	0.10	18.42	19.00	1.143	0.086	22.2
Product specific 10gSAR Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	104/5520	98.09%	1.019	0.425	0.08	17.89	19.00	1.291	0.559	22.2
Back side	802.11a	104/5520	98.09%	1.019	0.708	0.02	17.89	19.00	1.291	0.932	22.2
Left side	802.11a	104/5520	98.09%	1.019	0.070	0.06	17.89	19.00	1.291	0.092	22.2
Right side	802.11a	104/5520	98.09%	1.019	0.931	-0.01	17.89	19.00	1.291	1.226	22.2
Top side	802.11a	104/5520	98.09%	1.019	0.107	0.18	17.89	19.00	1.291	0.141	22.2
Product specific 10gSAR Test data of U-NII-2A at the worst case with Battery2#(Separate 0mm)											
Right side	802.11a	104/5520	98.09%	1.019	0.912	-0.01	17.89	19.00	1.291	1.201	22.2

Table 15: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.



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8.2.16 SAR Result of BT

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	0.77	1.30	0.098	-0.08	13.08	13.30	1.052	0.133	22
Left tilted	DH5	39/2441	0.77	1.30	0.025	0.12	13.08	13.30	1.052	0.034	22
Right cheek	DH5	39/2441	0.77	1.30	0.035	0.02	13.08	13.30	1.052	0.048	22
Right tilted	DH5	39/2441	0.77	1.30	0.014	-0.07	13.08	13.30	1.052	0.019	22
Head Test data at the worst case with Battery2#											
Left cheek	DH5	39/2441	0.77	1.30	0.082	-0.08	13.08	13.30	1.052	0.112	22
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	0.77	1.30	0.013	0.01	13.08	13.30	1.052	0.018	22
Back side	DH5	39/2441	0.77	1.30	0.021	0.01	13.08	13.30	1.052	0.028	22
Body worn Test data at the worst case with Battery2#(Separate 15mm)											
Back side	DH5	39/2441	0.77	1.30	0.017	0.01	13.08	13.30	1.052	0.023	22
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	0.77	1.30	0.018	0.00	13.08	13.30	1.052	0.025	22
Back side	DH5	39/2441	0.77	1.30	0.045	0.09	13.08	13.30	1.052	0.061	22
Left side	DH5	39/2441	0.77	1.30	0.013	0.01	13.08	13.30	1.052	0.018	22
Right side	DH5	39/2441	0.77	1.30	0.063	0.10	13.08	13.30	1.052	0.085	22
Top side	DH5	39/2441	0.77	1.30	0.008	-0.08	13.08	13.30	1.052	0.011	22
Hotspot Test data at the worst case with Battery2#(Separate 10mm)											
Right side	DH5	39/2441	0.77	1.30	0.059	0.10	13.08	13.30	1.052	0.081	22

Table 16: SAR of BT for Head and Body.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

- **Simultaneous Transmission Possibilities**

NO	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN+BT	Y	Y	Y	Y
2	WWAN+WIFI 2.4G	Y	Y	Y	Y
3	WWAN+WIFI 5G	Y	Y	Y	Y
4	WWAN+BT+WIFI 5G	N	N	N	N
5	BT+WIFI 5G	N	N	N	N
6	WIFI 2.4G+WIFI 5G	N	N	N	N
7	WIFI 2.4G+BT	N	N	N	N

Note:

- 1) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) band do not support hotspot function.



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Ant Down		1													2	3	4	1+2	1+3	1+4
Test position		Main Antenna SARmax (W/kg)													WiFi/BT Antenna SARmax (W/kg)			Summed 1g SARmax (W/kg)	Summed 1g SARmax (W/kg)	Summed 1g SARmax (W/kg)
		GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 66	WiFi 2.4G	WiFi 5G	BT			
Head	Left Touch	0.134	0.069	0.193	0.137	0.174	0.093	0.098	0.123	0.118	0.081	0.069	0.108	0.082	0.119	0.168	0.133	0.312	0.361	0.326
	Left Tilt	0.055	0.023	0.073	0.086	0.074	0.070	0.103	0.055	0.113	0.038	0.033	0.050	0.061	0.025	0.052	0.034	0.138	0.165	0.147
	Right Touch	0.117	0.050	0.150	0.127	0.167	0.103	0.121	0.123	0.104	0.074	0.063	0.099	0.114	0.022	0.077	0.048	0.189	0.244	0.215
	Right Tilt	0.063	0.033	0.093	0.070	0.088	0.078	0.082	0.065	0.083	0.047	0.039	0.061	0.031	0.009	0.023	0.019	0.102	0.116	0.112
Body 15mm	Front	0.163	0.084	0.234	0.187	0.209	0.180	0.186	0.146	0.188	0.128	0.136	0.163	0.172	0.046	0.146	0.018	0.280	0.380	0.252
	Back	0.207	0.158	0.404	0.312	0.258	0.350	0.272	0.209	0.311	0.190	0.208	0.246	0.202	0.098	0.341	0.028	0.502	0.745	0.432
Hotspot	Front	0.123	0.053	0.204	0.150	0.349	0.171	0.158	0.209	0.177	0.162	0.167	0.277	0.178	0.109	0.159	0.025	0.458	0.508	0.374
	Back	0.182	0.087	0.276	0.192	0.459	0.241	0.217	0.326	0.233	0.246	0.302	0.394	0.220	0.244	0.296	0.061	0.703	0.755	0.520
	Left	0.004	0.028	0.124	0.098	0.172	0.083	0.073	0.074	0.107	0.084	0.082	0.103	0.081	0.078	0.124	0.018	0.250	0.296	0.190
	Right	0.001	0.024	0.090	0.076	0.144	0.072	0.052	0.079	0.061	0.094	0.093	0.114	0.059	0.353	0.465	0.085	0.497	0.609	0.229
	Top	/	/	/	/	/	/	/	/	/	/	/	/	/	0.022	0.145	0.011	0.022	0.145	0.011
	Bottom	0.085	0.109	0.442	0.383	0.268	0.407	0.346	0.164	0.649	0.105	0.101	0.214	0.329	/	/	/	0.649	0.649	0.649
Test position		Main Antenna SARmax (W/kg)													WiFi/BT Antenna SARmax (W/kg)			Summed 10g SARmax	Summed 10g SARmax	Summed 10g SARmax
		GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 66	WiFi 2.4G	WiFi 5G	BT			
Product specific 10g SAR	Front	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.559	/	/	0.559	/
	Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.932	/	/	0.932	/
	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.093	/	/	0.093	/
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.226	/	/	1.226	/
	Top	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.141	/	/	0.141	/
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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Ant Up		1													2	3	4	1+2	1+3	1+4
Test position		Main Antenna SARmax (W/kg)													WiFi/BT Antenna SARmax (W/kg)			Summed 1g SARmax (W/kg)	Summed 1g SARmax (W/kg)	Summed 1g SARmax (W/kg)
		GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 66	WiFi 2.4G	WiFi 5G	BT			
Head	Left Touch	0.071	0.504	0.536	0.527	0.137	0.504	0.477	0.076	0.463	0.059	0.054	0.093	0.375	0.119	0.158	0.133	0.655	0.694	0.669
	Left Tilt	0.057	0.789	0.608	0.695	0.125	0.759	0.627	0.056	0.201	0.050	0.044	0.069	0.453	0.025	0.052	0.034	0.814	0.841	0.823
	Right Touch	0.137	0.406	0.423	0.399	0.230	0.370	0.344	0.137	0.977	0.096	0.122	0.137	0.274	0.022	0.077	0.048	0.999	1.054	1.025
	Right Tilt	0.100	0.612	0.552	0.579	0.199	0.605	0.554	0.126	0.454	0.078	0.103	0.108	0.361	0.009	0.023	0.019	0.621	0.635	0.631
Body 15mm	Front	0.014	0.059	0.080	0.056	0.035	0.095	0.050	0.022	0.215	0.023	0.021	0.017	0.039	0.046	0.146	0.018	0.261	0.361	0.233
	Back	0.038	0.181	0.201	0.152	0.067	0.212	0.117	0.034	0.289	0.036	0.037	0.039	0.094	0.098	0.341	0.028	0.387	0.630	0.317
Hotspot	Front	0.041	0.083	0.118	0.079	0.075	0.108	0.064	0.036	0.146	0.048	0.047	0.034	0.046	0.109	0.159	0.025	0.255	0.305	0.171
	Back	0.087	0.218	0.316	0.199	0.133	0.279	0.162	0.096	0.277	0.068	0.078	0.091	0.119	0.244	0.296	0.061	0.560	0.612	0.377
	Left	0.060	0.019	0.032	0.027	0.097	0.031	0.025	0.064	0.489	0.066	0.078	0.067	0.018	0.078	0.124	0.018	0.567	0.613	0.507
	Right	0.001	0.016	0.031	0.016	0.004	0.044	0.033	0.048	0.004	0.034	0.045	0.004	0.026	0.353	0.465	0.085	0.401	0.513	0.133
	Top	0.057	0.318	0.436	0.272	0.090	0.396	0.269	0.045	0.065	0.040	0.042	0.050	0.200	0.022	0.145	0.011	0.458	0.581	0.447
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Test position		Main Antenna SARmax (W/kg)													WiFi/BT Antenna SARmax (W/kg)			Summed 10g SARmax	Summed 10g SARmax	Summed 10g SARmax
		GSM850	GSM1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 66	WiFi 2.4G	WiFi 5G	BT			
Product specific 10g SAR	Front	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.559	/	/	0.559	/
	Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.932	/	/	0.932	/
	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.093	/	/	0.093	/
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.226	/	/	1.226	/
	Top	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.141	/	/	0.141	/
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Conclusion: The above numeral summed SAR results is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore simultaneous transmission SAR with Volume Scans is not required per KDB 447498 D01.



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9 Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52; SEMCAD X				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 2	1913	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 3	1912	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 11	1410	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1428	2020-03-03	2021-03-02
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3962	2020-04-01	2021-03-31
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1160	2019-05-22	2022-05-21
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d105	2019-12-17	2022-12-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1149	2019-05-21	2022-05-20
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1900V2	5d028	2019-12-17	2022-12-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	733	2019-12-17	2022-12-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1125	2019-05-20	2022-05-19
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1165	2019-12-20	2022-12-19
<input checked="" type="checkbox"/>	Agilent Network Analyzer	Agilent	E5071C	MY46523591	2020-04-16	2021-04-15
<input checked="" type="checkbox"/>	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMU200	123090	2020-06-11	2021-06-10
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	111637	2020-04-16	2021-04-15
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8821C	6201502984	2020-06-11	2021-06-10
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	MY53050736	2020-04-15	2021-04-14
<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance	AMP28-3W	073501433	NCR	NCR



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		Directions Systems Inc.				
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	GB41292095	2020-04-15	2021-04-14
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	MY41091234	2020-04-15	2021-04-14
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	100025	2020-04-16	2021-04-15
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/>	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	MingGao	T809	NA	2020-04-21	2021-04-20
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2020-04-21	2021-04-20

Note: All the equipments are within the valid period when the tests are performed.

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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