

		2547	24	22.82	0	22.30	1	
		2501	24	23.24	0	22.31	1	
	1RB Middle (24)	2685	24	23.47	0	22.91	1	
		2639	24	23.55	0	22.90	1	
		2593	24	23.15	0	22.05	1	
		2547	24	22.55	0	22.27	1	
		2501	24	22.77	0	21.85	1	
		2685	24	23.77	0	22.97	1	
	1RB Low (0)	2639	24	23.35	0	22.93	1	
		2593	24	22.77	0	22.22	1	
		2547	24	22.65	0	22.32	1	
		2501	24	22.43	0	22.14	1	
		2685	24	22.52	1	21.75	2	
	25RB High (25)	2639	24	22.46	1	21.73	2	
		2593	24	21.66	1	20.97	2	
		2547	24	21.73	1	20.66	2	
		2501	24	21.49	1	20.71	2	
		2685	24	22.46	1	21.80	2	
	25RB Middle (12)	2639	24	22.26	1	21.65	2	
		2593	24	21.63	1	20.88	2	
		2547	24	21.37	1	20.57	2	
		2501	24	21.48	1	20.57	2	
		2685	24	22.37	1	21.70	2	
	25RB Low (0)	2639	24	22.55	1	21.64	2	
		2593	24	21.66	1	20.84	2	
		2547	24	21.54	1	20.35	2	
		2501	24	21.46	1	20.67	2	
		2685	24	22.53	1	21.72	2	
	50RB (0)	2639	24	22.26	1	21.52	2	
		2593	24	21.69	1	20.88	2	
		2547	24	21.42	1	20.72	2	
		2501	24	21.44	1	20.68	2	
		15 MHz	1RB High (74)	2682.5	24	23.81	0	22.99
	2637.8			24	23.49	0	22.88	1
	2593			24	23.00	0	21.95	1
	2548.3			24	22.79	0	21.98	1
	2503.5			24	22.40	0	21.90	1
	1RB Middle (37)		2682.5	24	23.37	0	22.97	1
			2637.8	24	23.29	0	22.26	1
			2593	24	22.59	0	21.79	1
2548.3			24	22.57	0	21.84	1	
2503.5			24	22.20	0	21.72	1	

	1RB Low (0)	2682.5	24	23.88	0	22.91	1
		2637.8	24	23.27	0	22.30	1
		2593	24	22.58	0	22.01	1
		2548.3	24	22.63	0	22.22	1
		2503.5	24	22.31	0	22.06	1
	36RB High (38)	2682.5	24	22.66	1	21.85	2
		2637.8	24	22.56	1	21.39	2
		2593	24	21.79	1	20.54	2
		2548.3	24	21.63	1	20.64	2
		2503.5	24	21.49	1	20.58	2
	36RB Middle (19)	2682.5	24	22.56	1	21.70	2
		2637.8	24	22.57	1	21.42	2
		2593	24	21.75	1	20.51	2
		2548.3	24	21.41	1	20.59	2
		2503.5	24	21.43	1	20.59	2
	36RB Low (0)	2682.5	24	22.62	1	21.69	2
		2637.8	24	22.14	1	21.21	2
		2593	24	21.74	1	20.79	2
		2548.3	24	21.54	1	20.44	2
		2503.5	24	21.61	1	20.29	2
75RB (0)	2682.5	24	22.60	1	21.59	2	
	2637.8	24	22.54	1	21.34	2	
	2593	24	21.83	1	20.79	2	
	2548.3	24	21.54	1	20.58	2	
	2503.5	24	21.59	1	20.53	2	
20 MHz	1RB High (99)	2680	24	23.79	0	22.90	1
		2636.5	24	23.42	0	22.81	1
		2593	24	23.01	0	22.37	1
		2549.5	24	22.56	0	21.92	1
		2506	24	22.58	0	21.68	1
	1RB Middle (50)	2680	24	23.54	0	22.78	1
		2636.5	24	23.25	0	22.63	1
		2593	24	22.96	0	21.81	1
		2549.5	24	22.29	0	21.91	1
		2506	24	22.41	0	21.69	1
	1RB Low (0)	2680	24	23.43	0	22.59	1
		2636.5	24	23.05	0	22.23	1
		2593	24	22.53	0	21.71	1
		2549.5	24	22.23	0	21.54	1
		2506	24	22.44	0	21.26	1
	50RB High (50)	2680	24	22.53	1	21.50	2
		2636.5	24	22.32	1	21.29	2

		2593	24	21.92	1	20.76	2
		2549.5	24	21.39	1	20.61	2
		2506	24	21.51	1	20.55	2
	50RB Middle (25)	2680	24	22.68	1	21.76	2
		2636.5	24	22.63	1	21.38	2
		2593	24	21.72	1	20.74	2
		2549.5	24	21.33	1	20.49	2
		2506	24	21.60	1	20.50	2
	50RB Low (0)	2680	24	22.58	1	21.40	2
		2636.5	24	22.04	1	21.05	2
		2593	24	21.83	1	20.73	2
		2549.5	24	21.45	1	20.36	2
		2506	24	21.38	1	20.52	2
	100RB (0)	2680	24	22.43	1	21.50	2
		2636.5	24	22.05	1	21.04	2
		2593	24	21.77	1	20.74	2
		2549.5	24	21.59	1	20.53	2
		2506	24	21.57	1	20.55	2

Band 66							
Bandwidth (MHz)	RB allocation RB offset (Start RB)	Frequency (MHz)	Max. Target Power (dBm)	QPSK		16QAM	
				Actual output power (dBm)	MPR	Actual output power (dBm)	MPR
1.4 MHz	1RB High (5)	1779.3	24	22.94	0	21.73	1
		1745	24	22.92	0	21.64	1
		1710.7	24	23.04	0	21.86	1
	1RB Middle (3)	1779.3	24	23.03	0	21.89	1
		1745	24	22.99	0	21.68	1
		1710.7	24	23.13	0	21.90	1
	1RB Low (0)	1779.3	24	22.90	0	21.73	1
		1745	24	22.92	0	21.69	1
		1710.7	24	23.18	0	21.83	1
	3RB High (3)	1779.3	24	22.85	0	21.60	1
		1745	24	22.92	0	21.65	1
		1710.7	24	23.03	0	21.77	1
	3RB Middle (1)	1779.3	24	22.90	0	21.67	1
		1745	24	22.90	0	21.61	1
		1710.7	24	23.13	0	21.84	1
	3RB Low (0)	1779.3	24	22.90	0	21.57	1
		1745	24	22.98	0	21.64	1
		1710.7	24	23.07	0	21.82	1
	6RB (0)	1779.3	24	22.86	1	21.56	2
		1745	24	22.93	1	21.63	2
		1710.7	24	22.93	1	21.76	2

3 MHz	1RB High (14)	1778.5	24	22.88	0	21.51	1	
		1745	24	22.87	0	21.42	1	
		1711.5	24	23.06	0	21.55	1	
	1RB Middle (7)	1778.5	24	22.95	0	21.56	1	
		1745	24	23.00	0	21.58	1	
		1711.5	24	23.15	0	21.69	1	
	1RB Low (0)	1778.5	24	23.02	0	21.71	1	
		1745	24	22.99	0	21.53	1	
		1711.5	24	23.12	0	21.66	1	
	8RB High (7)	1778.5	24	22.93	1	21.70	2	
		1745	24	22.90	1	21.76	2	
		1711.5	24	22.91	1	21.83	2	
	8RB Middle (4)	1778.5	24	22.94	1	21.67	2	
		1745	24	22.92	1	21.76	2	
		1711.5	24	22.91	1	21.97	2	
	8RB Low (0)	1778.5	24	22.93	1	21.76	2	
		1745	24	22.97	1	21.79	2	
		1711.5	24	23.00	1	21.89	2	
	15RB (0)	1778.5	24	22.94	1	21.60	2	
		1745	24	23.00	1	21.68	2	
		1711.5	24	22.97	1	21.82	2	
	5 MHz	1RB High (24)	1777.5	24	22.28	0	21.77	1
			1745	24	22.20	0	21.82	1
			1712.5	24	22.46	0	21.93	1
1RB Middle (12)		1777.5	24	22.21	0	21.71	1	
		1745	24	22.18	0	21.79	1	
		1712.5	24	22.29	0	21.95	1	
1RB Low (0)		1777.5	24	22.26	0	21.90	1	
		1745	24	22.33	0	21.96	1	
		1712.5	24	22.62	0	22.04	1	
12RB High (13)		1777.5	24	22.21	1	21.72	2	
		1745	24	22.11	1	21.77	2	
		1712.5	24	22.24	1	21.93	2	
12RB Middle (6)		1777.5	24	22.25	1	21.70	2	
		1745	24	22.20	1	21.76	2	
		1712.5	24	22.33	1	21.91	2	
12RB Low (0)		1777.5	24	22.23	1	21.71	2	
		1745	24	22.20	1	21.80	2	
		1712.5	24	22.39	1	21.95	2	
25RB (0)		1777.5	24	22.20	1	21.66	2	
		1745	24	22.24	1	21.71	2	
		1712.5	24	22.35	1	21.87	2	
10 MHz		1RB High (49)	1775	24	22.42	0	21.01	1
			1745	24	22.60	0	21.08	1
			1715	24	22.41	0	21.11	1
	1RB Middle (24)	1775	24	22.04	0	21.08	1	
		1745	24	22.04	0	21.07	1	
1715		24	22.35	0	21.04	1		

	1RB Low (0)	1775	24	22.49	0	21.09	1	
		1745	24	22.45	0	21.14	1	
		1715	24	22.58	0	21.30	1	
	25RB High (25)	1775	24	22.28	1	20.92	2	
		1745	24	22.24	1	20.94	2	
		1715	24	22.42	1	21.10	2	
	25RB Middle (12)	1775	24	22.21	1	20.80	2	
		1745	24	22.16	1	20.90	2	
		1715	24	22.30	1	21.02	2	
	25RB Low (0)	1775	24	22.31	1	20.95	2	
		1745	24	22.22	1	20.99	2	
		1715	24	22.40	1	21.11	2	
50RB (0)	1775	24	22.31	1	20.84	2		
	1745	24	22.28	1	20.94	2		
	1715	24	22.41	1	21.08	2		
15 MHz	1RB High (74)	1772.5	24	22.27	0	21.12	1	
		1745	24	22.77	0	21.37	1	
		1717.5	24	22.93	0	21.54	1	
	1RB Middle (37)	1772.5	24	22.01	0	21.05	1	
		1745	24	22.00	0	21.09	1	
		1717.5	24	22.05	0	21.20	1	
	1RB Low (0)	1772.5	24	23.08	0	21.51	1	
		1745	24	23.10	0	21.70	1	
		1717.5	24	23.30	0	21.88	1	
	36RB High (38)	1772.5	24	22.26	1	20.94	2	
		1745	24	22.37	1	21.01	2	
		1717.5	24	22.55	1	21.24	2	
	36RB Middle (19)	1772.5	24	22.09	1	20.77	2	
		1745	24	22.22	1	20.89	2	
		1717.5	24	22.31	1	20.97	2	
	36RB Low (0)	1772.5	24	22.32	1	21.10	2	
		1745	24	22.62	1	21.22	2	
		1717.5	24	22.82	1	21.41	2	
	75RB (0)	1772.5	24	22.35	1	21.01	2	
		1745	24	22.50	1	21.09	2	
		1717.5	24	22.58	1	21.19	2	
	20 MHz	1RB High (99)	1770	24	23.75	0	22.84	1
			1745	24	23.79	0	22.69	1
			1720	24	23.67	0	22.92	1
1RB Middle (50)		1770	24	22.04	0	21.23	1	
		1745	24	22.29	0	21.29	1	
		1720	24	22.54	0	21.52	1	
1RB Low (0)		1770	24	23.94	0	22.99	1	
		1745	24	23.84	0	22.92	1	
		1720	24	23.95	0	22.97	1	
50RB High (50)		1770	24	22.49	1	21.20	2	
		1745	24	22.69	1	21.27	2	
		1720	24	22.73	1	21.42	2	

	50RB Middle (25)	1770	24	22.21	1	20.83	2
		1745	24	22.27	1	20.91	2
		1720	24	22.49	1	21.07	2
	50RB Low (0)	1770	24	22.79	1	21.30	2
		1745	24	22.89	1	21.40	2
		1720	24	22.98	1	21.48	2
	100RB (0)	1770	24	22.67	1	21.29	2
		1745	24	22.78	1	21.40	2
		1720	24	22.90	1	21.52	2

Low power

Table 11.3-2: The conducted Power for LTE

Band 7								
Bandwidth (MHz)	RB allocation	Frequency (MHz)	Max. Target Power (dBm)	QPSK		16QAM		
	RB offset (Start RB)			Actual output power (dBm)	MPR	Actual output power (dBm)	MPR	
5 MHz	1RB High (24)	2567.5	20.5	20.00	/	20.44	/	
		2535	20.5	20.10	/	20.22	/	
		2502.5	20.5	19.98	/	20.34	/	
	1RB Middle (12)	2567.5	20.5	20.03	/	20.24	/	
		2535	20.5	20.17	/	20.17	/	
		2502.5	20.5	19.98	/	20.33	/	
	1RB Low (0)	2567.5	20.5	20.18	/	20.38	/	
		2535	20.5	20.23	/	20.35	/	
		2502.5	20.5	20.16	/	20.45	/	
	12RB High (13)	2567.5	20.5	20.03	/	20.23	/	
		2535	20.5	20.05	/	20.21	/	
		2502.5	20.5	20.09	/	20.26	/	
	12RB Middle (6)	2567.5	20.5	20.06	/	20.25	/	
		2535	20.5	20.06	/	20.21	/	
		2502.5	20.5	20.13	/	20.31	/	
	12RB Low (0)	2567.5	20.5	20.05	/	20.28	/	
		2535	20.5	20.10	/	20.25	/	
		2502.5	20.5	20.15	/	20.33	/	
	25RB (0)	2567.5	20.5	20.04	/	20.16	/	
		2535	20.5	20.12	/	20.18	/	
		2502.5	20.5	20.16	/	20.22	/	
	10 MHz	1RB High (49)	2565	20.5	20.13	/	20.27	/
			2535	20.5	20.14	/	20.13	/
			2505	20.5	20.33	/	20.43	/
1RB Middle (24)		2565	20.5	19.91	/	20.11	/	
		2535	20.5	19.97	/	19.96	/	
		2505	20.5	20.04	/	20.41	/	
1RB Low (0)		2565	20.5	20.22	/	20.30	/	
		2535	20.5	20.16	/	20.20	/	
		2505	20.5	20.31	/	20.45	/	

	25RB High (25)	2565	20.5	19.99	/	20.20	/	
		2535	20.5	20.00	/	20.10	/	
		2505	20.5	20.04	/	20.13	/	
	25RB Middle (12)	2565	20.5	20.04	/	20.15	/	
		2535	20.5	20.04	/	20.09	/	
		2505	20.5	20.07	/	20.19	/	
	25RB Low (0)	2565	20.5	20.09	/	20.31	/	
		2535	20.5	20.11	/	20.14	/	
		2505	20.5	20.14	/	20.21	/	
	50RB (0)	2565	20.5	20.08	/	20.16	/	
		2535	20.5	20.08	/	20.10	/	
		2505	20.5	20.09	/	20.14	/	
15 MHz	1RB High (74)	2562.5	20.5	20.18	/	20.48	/	
		2535	20.5	20.09	/	20.11	/	
		2507.5	20.5	20.18	/	20.41	/	
	1RB Middle (37)	2562.5	20.5	20.07	/	20.44	/	
		2535	20.5	20.08	/	20.06	/	
		2507.5	20.5	20.20	/	20.44	/	
	1RB Low (0)	2562.5	20.5	20.15	/	20.48	/	
		2535	20.5	20.04	/	20.09	/	
		2507.5	20.5	20.28	/	20.48	/	
	36RB High (38)	2562.5	20.5	20.26	/	20.31	/	
		2535	20.5	20.27	/	20.27	/	
		2507.5	20.5	20.28	/	20.33	/	
	36RB Middle (19)	2562.5	20.5	20.15	/	20.22	/	
		2535	20.5	20.22	/	20.25	/	
		2507.5	20.5	20.30	/	20.39	/	
	36RB Low (0)	2562.5	20.5	20.11	/	20.21	/	
		2535	20.5	20.20	/	20.24	/	
		2507.5	20.5	20.26	/	20.38	/	
	75RB (0)	2562.5	20.5	20.04	/	20.17	/	
		2535	20.5	20.19	/	20.25	/	
		2507.5	20.5	20.28	/	20.33	/	
	20 MHz	1RB High (99)	2560	20.5	20.17	/	20.41	/
			2535	20.5	20.22	/	20.49	/
			2510	20.5	20.28	/	20.45	/
		1RB Middle (50)	2560	20.5	20.31	/	20.48	/
			2535	20.5	20.13	/	20.47	/
			2510	20.5	20.22	/	20.43	/
1RB Low (0)		2560	20.5	20.21	/	20.47	/	
		2535	20.5	20.00	/	20.44	/	
		2510	20.5	20.26	/	20.49	/	
50RB High (50)		2560	20.5	20.21	/	20.31	/	
		2535	20.5	20.18	/	20.23	/	
		2510	20.5	20.25	/	20.25	/	
50RB Middle (25)		2560	20.5	20.18	/	20.29	/	
		2535	20.5	20.20	/	20.26	/	
		2510	20.5	20.36	/	20.29	/	

	50RB Low (0)	2560	20.5	20.16	/	20.16	/
		2535	20.5	20.24	/	20.23	/
		2510	20.5	20.29	/	20.35	/
	100RB (0)	2560	20.5	20.21	/	20.20	/
		2535	20.5	20.21	/	20.21	/
		2510	20.5	20.28	/	20.38	/

Band 66							
Bandwidth (MHz)	RB allocation RB offset (Start RB)	Frequency (MHz)	Max. Target Power (dBm)	QPSK		16QAM	
				Actual output power (dBm)	MPR	Actual output power (dBm)	MPR
1.4 MHz	1RB High (5)	1779.3	22.5	20.83	/	20.87	/
		1745	22.5	20.82	/	20.69	/
		1710.7	22.5	21.10	/	20.80	/
	1RB Middle (3)	1779.3	22.5	21.02	/	20.83	/
		1745	22.5	20.90	/	20.73	/
		1710.7	22.5	21.05	/	20.91	/
	1RB Low (0)	1779.3	22.5	21.04	/	20.82	/
		1745	22.5	20.89	/	20.76	/
		1710.7	22.5	21.12	/	21.02	/
	3RB High (3)	1779.3	22.5	20.83	/	20.85	/
		1745	22.5	20.81	/	20.70	/
		1710.7	22.5	21.02	/	20.89	/
	3RB Middle (1)	1779.3	22.5	20.98	/	20.92	/
		1745	22.5	20.91	/	20.78	/
		1710.7	22.5	20.99	/	20.88	/
	3RB Low (0)	1779.3	22.5	21.01	/	20.89	/
		1745	22.5	20.93	/	20.83	/
		1710.7	22.5	21.11	/	20.93	/
	6RB (0)	1779.3	22.5	20.88	/	21.01	/
		1745	22.5	20.81	/	20.86	/
		1710.7	22.5	21.03	/	21.22	/
3 MHz	1RB High (14)	1778.5	22.5	20.87	/	20.83	/
		1745	22.5	20.85	/	20.73	/
		1711.5	22.5	21.05	/	20.87	/
	1RB Middle (7)	1778.5	22.5	21.02	/	20.91	/
		1745	22.5	20.89	/	20.78	/
		1711.5	22.5	21.05	/	20.92	/
	1RB Low (0)	1778.5	22.5	21.01	/	20.89	/
		1745	22.5	20.88	/	20.82	/
		1711.5	22.5	21.12	/	21.00	/
	8RB High (7)	1778.5	22.5	20.81	/	21.05	/
		1745	22.5	20.91	/	20.98	/
		1711.5	22.5	20.94	/	21.11	/
	8RB Middle (4)	1778.5	22.5	20.89	/	21.11	/
		1745	22.5	20.91	/	21.04	/
		1711.5	22.5	21.04	/	21.12	/

	8RB Low (0)	1778.5	22.5	20.92	/	21.08	/	
		1745	22.5	20.91	/	21.01	/	
		1711.5	22.5	21.06	/	21.26	/	
	15RB (0)	1778.5	22.5	20.86	/	21.03	/	
		1745	22.5	20.85	/	20.91	/	
		1711.5	22.5	20.99	/	21.18	/	
5 MHz	1RB High (24)	1777.5	22.5	20.83	/	21.04	/	
		1745	22.5	20.90	/	21.04	/	
		1712.5	22.5	20.96	/	21.15	/	
	1RB Middle (12)	1777.5	22.5	20.87	/	21.02	/	
		1745	22.5	20.87	/	21.00	/	
		1712.5	22.5	21.00	/	21.09	/	
	1RB Low (0)	1777.5	22.5	21.01	/	21.22	/	
		1745	22.5	20.98	/	21.17	/	
		1712.5	22.5	21.19	/	21.33	/	
	12RB High (13)	1777.5	22.5	20.95	/	20.91	/	
		1745	22.5	20.91	/	20.96	/	
		1712.5	22.5	21.01	/	21.10	/	
	12RB Middle (6)	1777.5	22.5	20.97	/	21.00	/	
		1745	22.5	20.88	/	21.08	/	
		1712.5	22.5	21.03	/	21.06	/	
	12RB Low (0)	1777.5	22.5	21.01	/	21.02	/	
		1745	22.5	20.89	/	21.04	/	
		1712.5	22.5	21.05	/	21.18	/	
	25RB (0)	1777.5	22.5	20.97	/	20.98	/	
		1745	22.5	20.92	/	20.97	/	
		1712.5	22.5	21.07	/	21.07	/	
	10 MHz	1RB High (49)	1775	22.5	21.18	/	21.04	/
			1745	22.5	21.18	/	21.00	/
			1715	22.5	20.62	/	21.02	/
1RB Middle (24)		1775	22.5	20.92	/	20.80	/	
		1745	22.5	20.85	/	20.65	/	
		1715	22.5	20.53	/	20.98	/	
1RB Low (0)		1775	22.5	21.23	/	21.23	/	
		1745	22.5	21.34	/	21.21	/	
		1715	22.5	21.53	/	21.15	/	
25RB High (25)		1775	22.5	20.92	/	21.00	/	
		1745	22.5	20.96	/	20.96	/	
		1715	22.5	20.61	/	21.03	/	
25RB Middle (12)		1775	22.5	20.85	/	20.93	/	
		1745	22.5	20.88	/	20.94	/	
		1715	22.5	20.60	/	21.04	/	
25RB Low (0)		1775	22.5	20.99	/	21.01	/	
		1745	22.5	21.04	/	21.08	/	
		1715	22.5	20.66	/	21.09	/	
50RB (0)		1775	22.5	20.98	/	20.97	/	
		1745	22.5	21.04	/	21.02	/	
		1715	22.5	20.69	/	21.04	/	

15 MHz	1RB High (74)	1772.5	22.5	21.66	/	21.46	/	
		1745	22.5	21.72	/	21.39	/	
		1717.5	22.5	21.58	/	21.50	/	
	1RB Middle (37)	1772.5	22.5	20.88	/	20.74	/	
		1745	22.5	20.77	/	20.63	/	
		1717.5	22.5	20.84	/	20.74	/	
	1RB Low (0)	1772.5	22.5	21.87	/	21.80	/	
		1745	22.5	21.76	/	21.77	/	
		1717.5	22.5	22.04	/	21.86	/	
	36RB High (38)	1772.5	22.5	21.09	/	21.01	/	
		1745	22.5	21.08	/	21.09	/	
		1717.5	22.5	21.21	/	21.18	/	
	36RB Middle (19)	1772.5	22.5	20.96	/	20.91	/	
		1745	22.5	20.99	/	20.89	/	
		1717.5	22.5	21.08	/	21.05	/	
	36RB Low (0)	1772.5	22.5	21.25	/	21.25	/	
		1745	22.5	21.36	/	21.35	/	
		1717.5	22.5	21.44	/	21.38	/	
	75RB (0)	1772.5	22.5	21.14	/	21.16	/	
		1745	22.5	21.20	/	21.13	/	
		1717.5	22.5	21.16	/	21.25	/	
	20 MHz	1RB High (99)	1770	22.5	22.32	/	22.45	/
			1745	22.5	22.29	/	22.38	/
			1720	22.5	22.39	/	22.46	/
		1RB Middle (50)	1770	22.5	21.14	/	21.26	/
			1745	22.5	20.99	/	21.21	/
			1720	22.5	21.45	/	21.59	/
1RB Low (0)		1770	22.5	22.49	/	22.43	/	
		1745	22.5	22.16	/	22.47	/	
		1720	22.5	22.46	/	22.41	/	
50RB High (50)		1770	22.5	21.43	/	21.35	/	
		1745	22.5	21.39	/	21.49	/	
		1720	22.5	21.52	/	21.64	/	
50RB Middle (25)		1770	22.5	21.03	/	20.99	/	
		1745	22.5	21.00	/	21.07	/	
		1720	22.5	21.19	/	21.20	/	
50RB Low (0)		1770	22.5	21.53	/	21.51	/	
		1745	22.5	21.48	/	21.55	/	
		1720	22.5	21.70	/	21.64	/	
100RB (0)		1770	22.5	21.48	/	21.43	/	
		1745	22.5	21.47	/	21.52	/	
		1720	22.5	21.60	/	21.62	/	



The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

The conducted power measurement results of downlink LTE CA are as below (**Low Power**):

DL LTE CA Class	PCC								SCC			Power		
	PCC Band	PCC Band width (MHz)	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Band width (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	Rel 10 DL LTE CA Tx Power (dBm)	Tune -up
7A-7A	7	20	50	25	100	0	20850	2850	7	20	3350	20.36	20.44	20.5
7A-4A	7	20	50	25	100	0	20850	2850	4	20	2175	20.36	20.42	20.5
7A-8A	7	20	50	25	100	0	20850	2850	8	10	3625	20.36	20.41	20.5
66A-66A	66	20	1	0	100	0	132072	66536	66	20	67236	22.46	22.48	22.5
66C	66	20	1	0	100	0	132572	67036	66	20	67234	22.49	22.45	22.5
66A-2A	66	20	1	0	100	0	132572	67036	2	20	900	22.49	22.45	22.5
66A-5A	66	20	1	0	100	0	132572	67036	5	10	2525	22.49	22.44	22.5
66A-12A	66	20	1	0	100	0	132572	67036	12	10	5095	22.49	22.47	22.5
66A-13A	66	20	1	0	100	0	132572	67036	13	10	5230	22.49	22.48	22.5

Note: Testing is not required in bands or modes not intended/allowed for US operation.



The conducted power measurement results of downlink LTE CA are as below (**Normal Power**):

DL LTE CA Class	PCC								SCC			Power		
	PCC Band	PCC Band width (MHz)	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Band width (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	Rel 10 DL LTE CA Tx Power (dBm)	Tune -up
2A-2A	2	15	1	0	75	0	19125	1125	2	20	700	23.98	23.99	24
2A-4A	2	15	1	0	75	0	19125	1125	4	20	2175	23.98	24	24
2A-5A	2	15	1	0	75	0	19125	1125	5	10	2525	23.98	23.99	24
2A-12A	2	15	1	0	75	0	19125	1125	12	10	5095	23.98	24	24
2A-13A	2	15	1	0	75	0	19125	1125	13	10	5230	23.98	23.99	24
2A-17A	2	15	1	0	75	0	19125	1125	17	10	5790	23.98	23.97	24
2A-29A	2	15	1	0	75	0	19125	1125	29	10	9715	23.98	23.98	24
2A-30A	2	15	1	0	75	0	19125	1125	30	10	9820	23.98	23.98	24
2A-66A	2	15	1	0	75	0	19125	1125	66	20	66786	23.98	23.97	24
5A-2A	5	10	1	49	50	0	20450	2450	2	20	900	23.72	23.71	24
5A-4A	5	10	1	49	50	0	20450	2450	4	20	2175	23.72	23.69	24
5A-30A	5	10	1	49	50	0	20450	2450	30	10	9820	23.72	23.68	24
5A-66A	5	10	1	49	50	0	20450	2450	66	20	66786	23.72	23.7	24
7A-7A	7	10	1	0	50	0	20800	2800	7	20	3350	23.34	23.37	24.5
7A-4A	7	10	1	0	50	0	20800	2800	4	20	2175	23.34	23.35	24.5
7A-8A	7	10	1	0	50	0	20800	2800	8	10	3625	23.34	23.33	24.5
12A-2A	12	10	1	49	50	0	23130	5130	2	20	900	23.84	23.83	24
12A-4A	12	10	1	49	50	0	23130	5130	4	20	2175	23.84	23.8	24
12A-30A	12	10	1	49	50	0	23130	5130	30	10	9820	23.84	23.88	24
12A-66A	12	10	1	49	50	0	23130	5130	66	20	66786	23.84	23.82	24
13A-2A	13	5	1	12	25	0	23205	5205	2	20	900	23.72	23.69	24
13A-4A	13	5	1	12	25	0	23205	5205	4	20	2175	23.72	23.71	24
13A-66A	13	5	1	12	25	0	23205	5205	66	20	66786	23.72	23.65	24
30A-2A	30	10	1	49	50	0	27710	9820	2	20	900	24.21	24.25	24.5
30A-4A	30	10	1	49	50	0	27710	9820	4	20	2175	24.21	24.23	24.5
30A-5A	30	10	1	49	50	0	27710	9820	5	10	2525	24.21	24.22	24.5
30A-12A	30	10	1	49	50	0	27710	9820	12	10	5095	24.21	24.24	24.5
30A-29A	30	10	1	49	50	0	27710	9820	29	10	9715	24.21	24.2	24.5
41C	41	15	1	0	75	0	41515	41515	41	15	41365	23.88	23.9	24
66A-66A	66	20	1	0	100	0	132072	66536	66	20	67236	23.95	23.97	24
66C	66	20	1	0	100	0	132072	66536	66	20	66734	23.95	23.94	24
66A-2A	66	20	1	0	100	0	132072	66536	2	20	900	23.95	23.95	24
66A-5A	66	20	1	0	100	0	132072	66536	5	10	2525	23.95	23.97	24
66A-12A	66	20	1	0	100	0	132072	66536	12	10	5095	23.95	23.98	24
66A-13A	66	20	1	0	100	0	132072	66536	13	10	5230	23.95	23.94	24

Note: Testing is not required in bands or modes not intended/allowed for US operation.

11.4 Wi-Fi and BT Measurement result

The output power of BT antenna is as following:

Mode	Conducted Power (dBm)		
	Channel 0 (2402MHz)	Channel 39 (2441MHz)	Channel 78(2480MHz)
GFSK	7.25	8.75	8.05
Tune up	7.5	9	8.5
EDR2M-4_DQPSK	7.11	8.64	7.89
Tune up	7.5	9	8.5
EDR3M-8DPSK	7.36	8.95	8.25
Tune up	7.5	9	8.5

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

Normal Power

802.11b (dBm)

Channel\data rate	1Mbps	2Mbps	5.5Mbps	11Mbps
1	18.16	/	18.31	/
6	18.49	18.35	18.50	18.00
11	18.19	/	18.29	/
Tune up	19	19	19	19

802.11g (dBm)

Channel\data rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
1	16.02	/	/	/	/	/	/	/
6	16.19	15.97	15.76	15.37	14.99	13.38	12.87	12.70
11	16.06	/	/	/	/	/	/	/
Tune up	17	17	17	17	16	15	14	14

802.11n (dBm) - HT20 (2.4G)

Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
1	15.22	/	/	/	/	/	/	/
6	15.38	14.93	14.57	14.22	11.62	11.17	10.98	10.76
11	15.24	/	/	/	/	/	/	/
Tune up	16	16	16	15	12	12	12	12

802.11n (dBm) – HT40 (2.4G)

Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
3	12.81	/	/	/	/	/	/	/
6	13.00	12.28	11.69	11.23	8.26	7.76	7.56	7.34
9	12.64	/	/	/	/	/	/	/
Tune up	14	14	13	13	9	9	9	9



Low Power

802.11b (dBm)

Channel\data rate	1Mbps	2Mbps	5.5Mbps	11Mbps
1	13.92	13.87	/	/
6	14.19	14.23	14.20	14.06
11	13.91	13.88	/	/
Tune up	14.5	14.5	14.5	14.5

802.11g (dBm)

Channel\data rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
1	13.72	/	/	/	/	/	/	/
6	13.96	13.91	13.84	13.70	13.55	13.92	13.11	13.03
11	13.86	/	/	/	/	/	/	/
Tune up	14	14	14	14	14	14	14	14

802.11n (dBm) - HT20 (2.4G)

Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
1	13.80	/	/	/	/	/	/	/
6	13.94	13.87	13.73	13.56	13.31	13.08	12.99	12.87
11	13.93	/	/	/	/	/	/	/
Tune up	14	14	14	14	14	14	14	14

802.11n (dBm) – HT40 (2.4G)

Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
3	11.44	/	/	/	/	/	/	/
6	11.70	11.46	11.22	10.94	10.50	10.15	9.97	9.85
9	11.33	/	/	/	/	/	/	/
Tune up	12	12	12	12	11	11	11	11



802.11a (dBm)

Channel\data rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
36	12.66	/	/	/	/	/	/	/
40	12.72	/	/	/	/	/	/	/
44	13.23	/	/	/	/	/	/	/
48	13.37	13.09	12.87	12.48	12.11	11.51	11.01	10.82
52	13.64	13.16	12.95	12.55	12.17	11.57	11.06	10.87
56	12.75	/	/	/	/	/	/	/
60	13.01	/	/	/	/	/	/	/
64	12.81	/	/	/	/	/	/	/
Tune up	14	14	14	14	14	12	12	12
100	11.27	/	/	/	/	/	/	/
104	11.11	/	/	/	/	/	/	/
108	11.33	/	/	/	/	/	/	/
112	11.76	/	/	/	/	/	/	/
116	11.87	11.83	11.61	11.22	10.84	9.93	9.73	9.53
120	11.81	/	/	/	/	/	/	/
124	11.42	/	/	/	/	/	/	/
128	10.77	/	/	/	/	/	/	/
132	10.29	/	/	/	/	/	/	/
136	10.09	/	/	/	/	/	/	/
140	10.41	/	/	/	/	/	/	/
144	11.11	/	/	/	/	/	/	/
Tune up	12	12	12	12	12	10	10	10
149	12.17	/	/	/	/	/	/	/
153	12.45	12.10	11.86	11.47	11.09	10.49	9.98	9.80
157	12.10	/	/	/	/	/	/	/
161	11.54	/	/	/	/	/	/	/
165	11.05	/	/	/	/	/	/	/
Tune up	13	13	13	13	13	11	11	11

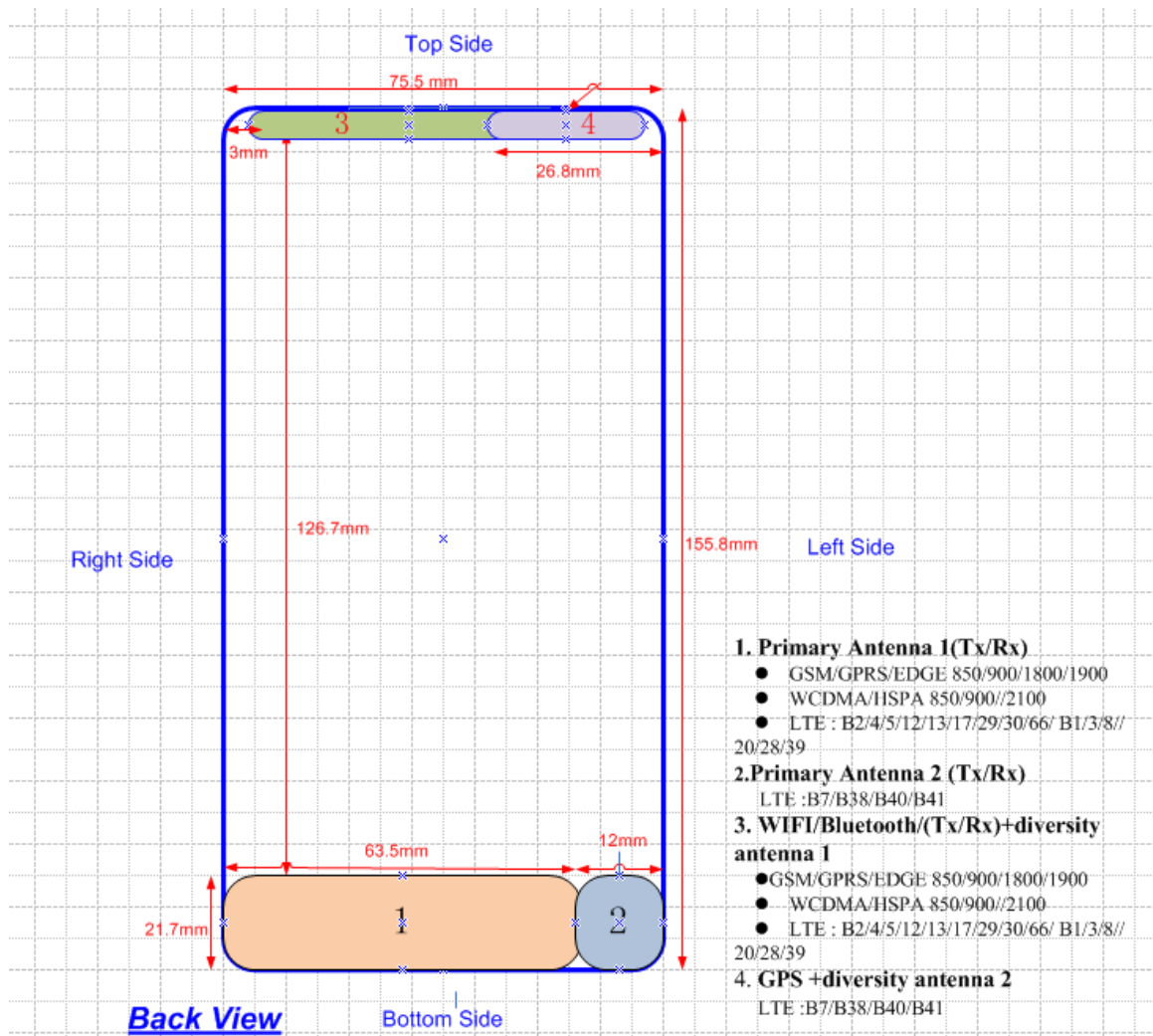
12 Simultaneous TX SAR Considerations

12.1 Introduction

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

For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

12.2 Transmit Antenna Separation Distances



Picture 12.1 Antenna Locations

12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
Primary antenna 1	Yes	Yes	Yes	Yes	No	Yes
Primary antenna 2	Yes	Yes	Yes	No	No	Yes
WLAN	Yes	Yes	No	Yes	Yes	No

12.4 Standalone SAR Test Exclusion Considerations

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

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

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

Table 12.1: Standalone SAR test exclusion considerations

Band/Mode	F(GHz)	Position	SAR test exclusion threshold(mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.441	Head	9.60	9	7.94	Yes
		Body	19.20	9	7.94	Yes
2.4GHz WLAN	2.45	Head	9.58	19	79.43	No
		Body	19.17	19	79.43	No

13 Evaluation of Simultaneous

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

	Position	Main antenna	WiFi	Sum
Highest reported SAR value for Head	Left hand, Touch cheek	0.42	1.04	1.46
	Left hand, Tilt 15°	0.23	1.16	1.39
	Right hand, Touch cheek	0.63	0.88	1.51
	Right hand, Tilt 15°	0.33	0.95	1.28
Highest reported SAR value for Body	Front	1.26	0.31	1.57
	Top	/	0.53	0.53

Note: we have evaluated and chose the highest value of WiFi 2.4G and 5G in the above table

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

	Position	Main antenna	BT	Sum
Maximum reported SAR value for Head	Right hand, Touch cheek	0.63	0.33 ^[1]	0.96
Maximum reported SAR value for Body	Front	1.26	0.17 ^[1]	1.43

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

Table 13.3: Estimated SAR for Bluetooth

Mode/Band	F (GHz)	Position	Distance (mm)	Upper limit of power *		Estimated _{1g} (W/kg)
				dBm	mW	
Bluetooth	2.441	Head	5	9	7.94	0.33
Bluetooth	2.441	Body	10	9	7.94	0.17

* - Maximum possible output power declared by manufacturer

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

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR.

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

Conclusion:

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

14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom. The distance is 10 mm or 15mm and just applied to the condition of body worn accessory.

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

The calculated SAR is obtained by the following formula:

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

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

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

Table 14.1: Duty Cycle

Mode	Duty Cycle
Speech for GSM850	1:2.67
Speech for GSM1900	1:2
GPRS&EGPRS for GSM850	1:2.67
GPRS&EGPRS for GSM1900	1:2
WCDMA<E FDD	1:1
LTE TDD	1:1.58

14.1 SAR results for Fast SAR

Table 14.1-1: SAR Values (GSM 850 MHz Band - Head)

Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
190	836.6	Left	Touch	/	30.17	30.5	0.241	0.26	0.294	0.32	0.06
190	836.6	Left	Tilt	/	30.17	30.5	0.175	0.19	0.217	0.23	-0.03
251	848.8	Right	Touch	/	30.35	30.5	0.350	0.36	0.453	0.47	-0.07
190	836.6	Right	Touch	/	30.17	30.5	0.401	0.43	0.525	0.57	0.02
128	824.2	Right	Touch	Fig.1	29.95	30.5	0.434	0.49	0.558	0.63	-0.05
190	836.6	Right	Tilt	/	30.17	30.5	0.239	0.26	0.308	0.33	0.01

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

Table 14.1-2: SAR Values (GSM 850 MHz Band - Body)

Frequency		Mode (number of timeslots)	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
251	848.8	GPRS (3)	Front	/	30.35	30.5	0.627	0.65	0.924	0.96	0.12
190	836.6	GPRS (3)	Front	/	30.17	30.5	0.697	0.75	1.02	1.10	0.04
128	824.2	GPRS (3)	Front	Fig.2	29.95	30.5	0.724	0.82	1.03	1.17	0.04
251	848.8	GPRS (3)	Rear	/	30.35	30.5	0.617	0.64	0.906	0.94	0.06
190	836.6	GPRS (3)	Rear	/	30.17	30.5	0.680	0.73	0.999	1.08	0.01
128	824.2	GPRS (3)	Rear	/	29.95	30.5	0.688	0.78	1.01	1.15	0.03
190	836.6	GPRS (3)	Left	/	30.17	30.5	0.088	0.09	0.127	0.14	0.07
190	836.6	GPRS (3)	Right	/	30.17	30.5	0.115	0.12	0.190	0.20	-0.11
190	836.6	GPRS (3)	Bottom	/	30.17	30.5	0.207	0.22	0.402	0.43	-0.08
128	824.2	EGPRS (3)	Front	/	29.98	30.5	0.706	0.80	1.01	1.14	0.09

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-3: SAR Values (GSM 1900 MHz Band - Head)

Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	Left	Touch	/	27.65	28	0.117	0.13	0.173	0.19	-0.09
661	1880	Left	Touch	/	27.53	28	0.112	0.12	0.176	0.20	0.02
512	1850.2	Left	Touch	Fig.3	27.26	28	0.117	0.14	0.178	0.21	0.01
661	1880	Left	Tilt	/	27.53	28	0.031	0.03	0.053	0.06	0.12
661	1880	Right	Touch	/	27.53	28	0.112	0.12	0.173	0.19	0.01
661	1880	Right	Tilt	/	27.53	28	0.023	0.03	0.043	0.05	0.05

Note: the head SAR of GSM1900 is tested with GPRS (4Txslots) mode because of VoIP.

Table 14.1-4: SAR Values (GSM 1900 MHz Band - Body)

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
Frequency		Mode (number of timeslots)	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
810	1909.8	GPRS (4)	Front	/	27.65	28	0.509	0.55	0.882	0.96	-0.03
661	1880	GPRS (4)	Front	Fig.4	27.53	28	0.544	0.61	0.936	1.04	-0.09
512	1850.2	GPRS (4)	Front	/	27.26	28	0.413	0.49	0.864	1.02	0.02
810	1909.8	GPRS (4)	Rear	/	27.65	28	0.468	0.51	0.794	0.86	0.08
661	1880	GPRS (4)	Rear	/	27.53	28	0.498	0.55	0.843	0.94	-0.09
512	1850.2	GPRS (4)	Rear	/	27.26	28	0.459	0.54	0.778	0.92	-0.07
661	1880	GPRS (4)	Left	/	27.53	28	0.029	0.03	0.048	0.05	-0.07
661	1880	GPRS (4)	Right	/	27.53	28	0.160	0.18	0.331	0.37	0.12
661	1880	GPRS (4)	Bottom	/	27.53	28	0.304	0.34	0.543	0.61	0.05
661	1880	GPRS (4)	Front	/	27.60	28	0.526	0.58	0.920	1.01	0.05

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-5: SAR Values (WCDMA 850 MHz Band - Head)

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
4182	836.4	Left	Touch	/	23.68	24	0.139	0.15	0.173	0.19	0.06
4182	836.4	Left	Tilt	/	23.68	24	0.102	0.11	0.128	0.14	-0.01
4233	846.6	Right	Touch	Fig.5	23.86	24	0.250	0.26	0.329	0.34	-0.08
4182	836.4	Right	Touch	/	23.68	24	0.225	0.24	0.296	0.32	-0.05
4132	826.4	Right	Touch	/	23.76	24	0.237	0.25	0.310	0.33	0.03
4182	836.4	Right	Tilt	/	23.68	24	0.136	0.15	0.179	0.19	0.01

Table 14.1-6: SAR Values (WCDMA 850 MHz Band - Body)

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)	
Ch.	MHz										
4182	836.4	Front	/	23.68	24	0.493	0.53	0.719	0.77	0.02	
4233	846.6	Rear	Fig.6	23.86	24	0.529	0.55	0.758	0.78	-0.06	
4182	836.4	Rear	/	23.71	24	0.510	0.55	0.733	0.78	0.07	
4132	826.4	Rear	/	23.76	24	0.518	0.55	0.731	0.77	0.11	
4182	836.4	Left	/	23.68	24	0.073	0.08	0.106	0.11	0.02	
4182	836.4	Right	/	23.68	24	0.080	0.09	0.124	0.13	0.01	
4182	836.4	Bottom	/	23.68	24	0.100	0.11	0.199	0.21	0.07	

Note: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-7: SAR Values (WCDMA 1700 MHz Band - Head)

Frequency		Side	Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C											
1738	1752.6	Left	Touch	/	23.50	24	0.152	0.17	0.222	0.25	-0.02
1637	1732.4	Left	Touch	/	23.57	24	0.129	0.14	0.194	0.21	0.09
1537	1712.4	Left	Touch	Fig.7	23.68	24	0.164	0.18	0.237	0.26	0.17
1637	1732.4	Left	Tilt	/	23.57	24	0.049	0.05	0.071	0.08	0.13
1637	1732.4	Right	Touch	/	23.57	24	0.105	0.12	0.162	0.18	0.12
1637	1732.4	Right	Tilt	/	23.57	24	0.084	0.09	0.124	0.14	0.04

Table 14.1-8: SAR Values (WCDMA 1700 MHz Band - Body)

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C										
1738	1752.6	Front	Fig.8	21.88	22.5	0.562	0.65	0.960	1.11	-0.10
1637	1732.4	Front	/	21.96	22.5	0.490	0.55	0.874	0.99	0.05
1537	1712.4	Front	/	22.06	22.5	0.497	0.55	0.879	0.97	-0.12
1738	1752.6	Rear	/	21.88	22.5	0.432	0.50	0.803	0.93	0.06
1637	1732.4	Rear	/	21.96	22.5	0.393	0.45	0.730	0.83	0.02
1537	1712.4	Rear	/	22.06	22.5	0.407	0.45	0.756	0.84	0.07
1637	1732.4	Left	/	21.96	22.5	0.051	0.06	0.087	0.10	0.08
1637	1732.4	Right	/	21.96	22.5	0.131	0.15	0.269	0.30	0.02
1738	1752.6	Bottom	/	21.88	22.5	0.405	0.47	0.855	0.99	-0.05
1637	1732.4	Bottom	/	21.96	22.5	0.369	0.42	0.777	0.88	0.01
1537	1712.4	Bottom	/	22.06	22.5	0.378	0.42	0.797	0.88	0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-9: SAR Values (WCDMA 1700 MHz Band - Body)

Frequency		Test Position	Figure No./Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
Ambient Temperature: 22.9 °C Liquid Temperature: 22.5 °C										
1738	1752.6	Front	/	23.50	24	0.341	0.38	0.693	0.78	-0.04
1637	1732.4	Front	/	23.57	24	0.399	0.44	0.668	0.74	-0.11
1537	1712.4	Front	Fig.9	23.68	24	0.468	0.50	0.759	0.82	-0.17
1637	1732.4	Rear	/	23.57	24	0.343	0.38	0.588	0.65	0.06

Note1: The distance between the EUT and the phantom bottom is 15mm.

Table 14.1-10: SAR Values (WCDMA 1900 MHz Band - Head)

Frequency		Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C											
9938	1907.6	Left	Touch	Fig.10	24.24	24.5	0.095	0.10	0.138	0.15	0.18
9800	1880	Left	Touch	/	24.26	24.5	0.087	0.09	0.128	0.14	0.06
9662	1852.4	Left	Touch	/	24.15	24.5	0.087	0.09	0.131	0.14	0.05
9800	1880	Left	Tilt	/	24.26	24.5	0.043	0.05	0.066	0.07	0.02
9800	1880	Right	Touch	/	24.26	24.5	0.084	0.09	0.122	0.13	0.11
9800	1880	Right	Tilt	/	24.26	24.5	0.052	0.05	0.083	0.09	0.14

Table 14.1-11: SAR Values (WCDMA 1900 MHz Band - Body)

Frequency		Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz									
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C										
9938	1907.6	Front	/	24.24	24.5	0.668	0.71	1.17	1.24	-0.01
9800	1880	Front	/	24.26	24.5	0.678	0.72	1.18	1.25	0.04
9662	1852.4	Front	Fig.11	24.35	24.5	0.708	0.73	1.22	1.26	-0.08
9938	1907.6	Rear	/	24.24	24.5	0.597	0.63	1.01	1.07	-0.06
9800	1880	Rear	/	24.26	24.5	0.604	0.64	1.02	1.08	0.05
9662	1852.4	Rear	/	24.35	24.5	0.622	0.64	1.05	1.09	0.08
9800	1880	Left	/	24.26	24.5	0.061	0.06	0.095	0.10	-0.13
9800	1880	Right	/	24.26	24.5	0.239	0.25	0.488	0.52	0.17
9800	1880	Bottom	/	24.26	24.5	0.332	0.35	0.584	0.62	0.03
9662	1852.4	Front	/	24.35	24.5	0.665	0.69	1.12	1.16	0.08

Note1: The distance between the EUT and the phantom bottom is 10mm.

Table 14.1-12: SAR Values (LTE Band2 - Head)

Frequency		Mode	Side	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C												
19100	1900	1RB_Low	Left	Touch	Fig.12	23.76	24	0.108	0.11	0.163	0.17	0.01
19100	1900	1RB_Low	Left	Tilt	/	23.76	24	0.041	0.04	0.060	0.06	0.08
19100	1900	1RB_Low	Right	Touch	/	23.76	24	0.095	0.10	0.122	0.13	0.14
19100	1900	1RB_Low	Right	Tilt	/	23.76	24	0.025	0.03	0.048	0.05	0.06
19100	1900	50RB_Mid	Left	Touch	/	22.85	23	0.087	0.09	0.129	0.13	-0.11
19100	1900	50RB_Mid	Left	Tilt	/	22.85	23	0.038	0.04	0.059	0.06	0.09
19100	1900	50RB_Mid	Right	Touch	/	22.85	23	0.077	0.08	0.036	0.04	0.13
19100	1900	50RB_Mid	Right	Tilt	/	22.85	23	0.019	0.02	0.039	0.04	-0.03

Note1: The LTE mode is QPSK_20MHz.

Table 14.1-13: SAR Values (LTE Band2 - Body)

Frequency		Mode	Test Position	Figure No./ Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C											
19100	1900	1RB_Low	Front	/	23.76	24	0.437	0.46	0.747	0.79	0.06
19100	1900	1RB_Low	Rear	Fig.13	23.76	24	0.444	0.47	0.761	0.80	0.09
19100	1900	1RB_Low	Left	/	23.76	24	0.038	0.04	0.057	0.06	-0.03
19100	1900	1RB_Low	Right	/	23.76	24	0.122	0.13	0.251	0.27	-0.01
19100	1900	1RB_Low	Bottom	/	23.76	24	0.237	0.25	0.394	0.42	0.07
19100	1900	50RB_Mid	Front	/	22.85	23	0.327	0.34	0.557	0.58	0.02
19100	1900	50RB_Mid	Rear	/	22.85	23	0.370	0.38	0.647	0.67	-0.05
19100	1900	50RB_Mid	Left	/	22.85	23	0.031	0.03	0.046	0.05	-0.01
19100	1900	50RB_Mid	Right	/	22.85	23	0.105	0.11	0.216	0.22	0.06
19100	1900	50RB_Mid	Bottom	/	22.85	23	0.203	0.21	0.352	0.36	0.02

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

Table 14.1-14: SAR Values (LTE Band5 - Head)

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C												
20450	829	1RB_High	Left	Touch	/	23.72	24	0.190	0.20	0.241	0.26	0.06
20450	829	1RB_High	Left	Tilt	/	23.72	24	0.128	0.14	0.158	0.17	-0.01
20450	829	1RB_High	Right	Touch	Fig.14	23.72	24	0.310	0.33	0.407	0.43	0.18
20450	829	1RB_High	Right	Tilt	/	23.72	24	0.152	0.16	0.200	0.21	0.02
20600	844	25RB_High	Left	Touch	/	22.54	23	0.136	0.15	0.172	0.19	0.06
20600	844	25RB_High	Left	Tilt	/	22.54	23	0.094	0.10	0.118	0.13	0.03
20600	844	25RB_High	Right	Touch	/	22.54	23	0.198	0.22	0.258	0.29	-0.06
20600	844	25RB_High	Right	Tilt	/	22.54	23	0.100	0.11	0.132	0.15	0.01

Note1: The LTE mode is QPSK_10MHz.

Table 14.1-15: SAR Values (LTE Band5 - Body)

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz										
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C											
20450	829	1RB_High	Front	/	23.72	24	0.444	0.47	0.625	0.67	0.14
20450	829	1RB_High	Rear	Fig.15	23.72	24	0.461	0.49	0.641	0.68	-0.03
20450	829	1RB_High	Left	/	23.72	24	0.051	0.05	0.085	0.09	0.06
20450	829	1RB_High	Right	/	23.72	24	0.203	0.22	0.284	0.30	0.02
20450	829	1RB_High	Bottom	/	23.72	24	0.158	0.17	0.271	0.29	0.13
20600	844	25RB_High	Front	/	22.54	23	0.319	0.35	0.454	0.50	0.09
20600	844	25RB_High	Rear	/	22.54	23	0.328	0.36	0.455	0.51	0.06
20600	844	25RB_High	Left	/	22.54	23	0.039	0.04	0.063	0.07	0.05
20600	844	25RB_High	Right	/	22.54	23	0.148	0.16	0.210	0.23	0.13
20600	844	25RB_High	Bottom	/	22.54	23	0.110	0.12	0.199	0.22	0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

Table 14.1-16: SAR Values (LTE Band7 - Head)

Frequency		Mode	Side	Test Position	Figure No./ Note	Conduct ed Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
Ch.	MHz											
Ambient Temperature: 22.9°C Liquid Temperature: 22.5°C												
20850	2510	1RB_Low	Left	Touch	/	23.26	24.5	0.170	0.23	0.316	0.42	0.06
20850	2510	1RB_Low	Left	Tilt	/	23.26	24.5	0.047	0.06	0.100	0.13	0.02
20850	2510	1RB_Low	Right	Touch	Fig.16	23.26	24.5	0.183	0.24	0.347	0.46	0.07
20850	2510	1RB_Low	Right	Tilt	/	23.26	24.5	0.105	0.14	0.191	0.25	-0.08
20850	2510	50RB_Low	Left	Touch	/	22.13	23.5	0.141	0.19	0.262	0.36	0.02
20850	2510	50RB_Low	Left	Tilt	/	22.13	23.5	0.043	0.06	0.078	0.11	-0.01
20850	2510	50RB_Low	Right	Touch	/	22.13	23.5	0.165	0.23	0.319	0.44	-0.05
20850	2510	50RB_Low	Right	Tilt	/	22.13	23.5	0.082	0.11	0.149	0.20	0.02

Note1: The LTE mode is QPSK_20MHz.