

	1RB Low (0)	2682.5	22.88	22.44	21.11
		2637.8	22.74	22.33	21.06
		2593	23.05	22.33	20.98
		2548.3	23.02	22.51	20.93
		2503.5	22.99	22.40	20.40
	36RB High (38)	2682.5	21.81	20.89	20.04
		2637.8	21.78	20.90	19.99
		2593	21.94	21.05	19.81
		2548.3	21.93	21.03	19.73
		2503.5	22.01	21.07	19.53
	36RB Middle (19)	2682.5	21.96	20.99	20.12
		2637.8	21.94	21.12	19.98
		2593	21.89	21.04	19.88
		2548.3	21.95	21.05	19.90
		2503.5	22.06	21.17	19.54
	36RB Low (0)	2682.5	21.88	20.99	20.17
		2637.8	21.90	21.03	20.06
		2593	21.95	21.03	20.01
		2548.3	21.99	21.08	19.82
		2503.5	22.04	21.16	19.51
75RB (0)	2682.5	21.92	21.05	20.12	
	2637.8	21.90	21.02	19.98	
	2593	21.90	21.00	19.83	
	2548.3	21.97	21.07	19.90	
	2503.5	22.00	21.09	19.46	
20 MHz	1RB High (99)	2680	22.88	22.10	20.89
		2636.5	22.88	22.47	20.88
		2593	23.05	22.34	20.84
		2549.5	22.89	22.12	20.76
		2506	22.92	22.51	20.49
	1RB Middle (50)	2680	22.92	22.15	20.97
		2636.5	22.91	22.49	20.92
		2593	22.91	22.29	20.82
		2549.5	22.94	22.17	20.74
		2506	23.04	22.51	20.40
	1RB Low (0)	2680	22.96	22.14	21.12
		2636.5	23.03	22.41	21.08
		2593	23.06	22.42	21.03
		2549.5	23.09	22.31	20.91
		2506	23.08	22.45	20.41
	50RB High (50)	2680	21.99	21.05	20.11
		2636.5	22.00	21.10	20.02

		2593	21.96	21.02	19.84
		2549.5	21.90	20.97	19.77
		2506	22.02	21.12	19.51
	50RB Middle (25)	2680	21.95	21.10	20.11
		2636.5	21.96	21.16	19.99
		2593	21.93	20.98	19.88
		2549.5	21.98	21.06	19.93
		2506	21.99	21.10	19.50
	50RB Low (0)	2680	22.02	21.18	20.21
		2636.5	22.04	21.25	20.07
		2593	22.04	21.09	20.00
		2549.5	21.91	21.06	19.81
		2506	22.13	21.20	19.55
	100RB (0)	2680	21.99	21.05	20.12
		2636.5	21.92	21.10	19.99
		2593	21.92	21.01	19.87
		2549.5	21.95	21.03	19.89
		2506	22.03	21.05	19.51

Band 66						
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM	
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)	
1.4 MHz	1RB High (5)	1779.3	23.05	21.82	21.06	
		1745	23.20	21.89	21.18	
		1710.7	23.31	22.15	21.26	
	1RB Middle (3)	1779.3	23.06	21.85	21.23	
		1745	23.18	21.92	21.28	
		1710.7	23.36	22.17	21.35	
	1RB Low (0)	1779.3	23.07	21.82	21.22	
		1745	23.15	21.91	21.27	
		1710.7	23.22	22.10	21.40	
	3RB High (3)	1779.3	22.77	21.95	21.02	
		1745	23.00	22.02	21.14	
		1710.7	23.09	22.28	21.28	
	3RB Middle (1)	1779.3	22.83	22.04	21.16	
		1745	23.08	22.09	21.20	
		1710.7	23.15	22.40	21.46	
	3RB Low (0)	1779.3	22.79	21.95	21.24	
		1745	22.93	22.05	21.34	
		1710.7	23.08	22.29	21.33	
	6RB (0)	1779.3	21.99	21.08	20.07	
		1745	22.19	21.13	20.09	
		1710.7	22.10	21.32	20.12	
	3 MHz	1RB High (14)	1778.5	23.09	21.77	21.02
			1745	23.26	21.93	21.17
			1711.5	23.11	21.99	21.32
1RB Middle (7)		1778.5	23.38	22.00	21.22	
		1745		22.17	21.22	
		1711.5	23.38	22.14	21.36	
1RB Low (0)		1778.5	23.04	21.82	21.21	
		1745	23.14	21.92	21.29	
		1711.5	23.11	21.89	21.35	
8RB High (7)		1778.5	22.06	20.99	19.98	
		1745	22.18	21.07	20.01	
		1711.5	22.15	21.29	20.12	
8RB Middle (4)		1778.5	22.12	21.07	19.90	
		1745	22.27	21.18	20.10	
		1711.5	22.27	21.38	20.16	
8RB Low (0)		1778.5	22.07	21.01	20.06	
		1745	22.18	21.10	20.07	
		1711.5	22.18	21.30	20.19	
15RB (0)		1778.5	22.01	20.92	20.06	
		1745	22.11	21.04	20.09	
		1711.5	22.17	21.23	20.11	
5 MHz		1RB High (24)	1777.5	22.96	21.95	21.04
			1745	23.06	22.07	21.12
			1712.5	23.11	22.23	21.30

	1RB Middle (12)	1777.5	23.17	22.14	21.21	
		1745	23.27	22.30	21.20	
		1712.5	23.33	22.39	21.47	
	1RB Low (0)	1777.5	22.85	21.88	21.20	
		1745	23.08	22.10	21.27	
		1712.5	23.05	22.12	21.38	
	12RB High (13)	1777.5	21.85	20.93	20.02	
		1745	22.04	21.16	20.06	
		1712.5	22.06	21.24	20.16	
	12RB Middle (6)	1777.5	21.96	21.07	19.94	
		1745	22.19	21.25	20.08	
		1712.5	22.17	21.33	20.18	
	12RB Low (0)	1777.5	21.90	21.01	20.11	
		1745	22.11	21.16	20.10	
		1712.5	22.13	21.24	20.18	
	25RB (0)	1777.5	21.86	20.88	20.04	
		1745	22.04	21.11	20.04	
		1712.5	22.07	21.17	20.17	
	10 MHz	1RB High (49)	1775	23.10	21.93	21.03
			1745	23.21	22.02	21.20
			1715	23.21	22.22	21.32
		1RB Middle (24)	1775	23.05	22.04	21.20
			1745	23.22	22.06	21.19
			1715	23.23	22.27	21.38
1RB Low (0)		1775	22.94	22.10	21.19	
		1745	23.20	22.08	21.31	
		1715	23.19	22.22	21.38	
25RB High (25)		1775	21.86	21.01	19.98	
		1745	22.09	21.19	20.07	
		1715	22.18	21.32	20.18	
25RB Middle (12)		1775	21.93	21.09	19.96	
		1745	22.11	21.22	20.11	
		1715	22.19	21.26	20.17	
25RB Low (0)		1775	21.91	21.08	20.11	
		1745	22.08	21.24	20.07	
		1715	22.18	21.29	20.24	
50RB (0)		1775	21.92	21.01	20.07	
		1745	22.07	21.18	20.05	
		1715	22.19	21.24	20.17	
15 MHz		1RB High (74)	1772.5	22.96	22.19	21.03
			1745	23.13	22.33	21.14
			1717.5	23.21	22.06	21.31
	1RB Middle (37)	1772.5	22.99	22.39	21.21	
		1745	23.39	22.42	21.29	
		1717.5	23.36	22.17	21.45	
	1RB Low (0)	1772.5	22.90	22.36	21.21	
		1745	23.22	22.42	21.29	
		1717.5	23.25	22.06	21.38	

	36RB High (38)	1772.5	21.86	20.89	19.95
		1745	22.06	21.10	20.04
		1717.5	22.07	21.13	20.15
	36RB Middle (19)	1772.5	21.93	20.99	19.99
		1745	22.16	21.19	20.09
		1717.5	22.13	21.25	20.19
	36RB Low (0)	1772.5	21.82	20.90	20.06
		1745	22.02	21.08	20.16
		1717.5	22.05	21.14	20.20
	75RB (0)	1772.5	21.87	20.94	20.12
		1745	22.02	21.14	20.02
		1717.5	22.03	21.14	20.13
20 MHz	1RB High (99)	1770	23.04	22.23	21.04
		1745	23.15	22.40	21.19
		1720	23.08	22.73	21.34
	1RB Middle (50)	1770	23.07	22.50	21.24
		1745	23.36	22.47	21.26
		1720	23.21	22.86	21.43
	1RB Low (0)	1770	22.92	22.34	21.25
		1745	23.15	22.48	21.30
		1720	23.13	22.74	21.39
	50RB High (50)	1770	21.84	20.89	20.00
		1745	22.09	21.11	20.07
		1720	22.07	21.33	20.16
	50RB Middle (25)	1770	21.84	20.94	19.96
		1745	22.10	21.12	20.09
		1720	22.08	21.34	20.19
	50RB Low (0)	1770	21.93	21.03	20.12
		1745	22.11	21.14	20.13
		1720	22.10	21.30	20.23
	100RB (0)	1770	21.92	21.05	20.08
		1745	22.07	21.08	20.06
		1720	22.07	21.28	20.17

Low power

**Table 11.3-2: The conducted Power for LTE**

Band 2						
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM	
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)	
1.4 MHz	1RB High (5)	1909.3	20.98	21.12	21.12	
		1880	21.31	21.45	21.41	
		1850.7	21.28	21.67	21.48	
	1RB Middle (3)	1909.3	21.05	21.15	21.12	
		1880	21.40	21.49	21.46	
		1850.7	21.36	21.72	21.48	
	1RB Low (0)	1909.3	20.97	21.08	21.33	
		1880	21.35	21.41	21.45	
		1850.7	21.29	21.68	21.51	
	3RB High (3)	1909.3	21.04	21.27	21.16	
		1880	21.32	21.42	21.44	
		1850.7	21.32	21.50	21.42	
	3RB Middle (1)	1909.3	21.06	21.32	21.14	
		1880	21.39	21.52	21.45	
		1850.7	21.39	21.62	21.42	
	3RB Low (0)	1909.3	21.02	21.26	21.32	
		1880	21.33	21.43	21.45	
		1850.7	21.36	21.54	21.52	
	6RB (0)	1909.3	21.05	21.28	20.21	
		1880	21.31	21.48	20.36	
		1850.7	21.24	21.20	20.24	
	3 MHz	1RB High (14)	1908.5	20.98	21.12	21.17
			1880	21.35	21.23	21.39
			1851.5	21.31	21.72	21.48
1RB Middle (7)		1908.5	21.10	21.27	21.15	
		1880	21.42	21.40	21.35	
		1851.5	21.45	21.84	21.44	
1RB Low (0)		1908.5	21.04	21.17	21.29	
		1880	21.25	21.24	21.39	
		1851.5	21.30	21.69	21.50	
8RB High (7)		1908.5	21.06	21.20	20.09	
		1880	21.37	21.51	20.31	
		1851.5	21.33	21.48	20.35	
8RB Middle (4)		1908.5	21.16	21.27	20.06	
		1880	21.41	21.54	20.39	
		1851.5	21.40	21.51	20.47	
8RB Low (0)		1908.5	21.08	21.21	20.25	
		1880	21.37	21.55	20.28	
		1851.5	21.33	21.48	20.38	
15RB (0)		1908.5	21.10	21.15	20.16	
		1880	21.35	21.46	20.30	
		1851.5	21.33	21.41	20.31	

5 MHz	1RB High (24)	1907.5	21.09	21.23	21.06	
		1880	21.43	21.58	21.36	
		1852.5	21.32	21.69	21.47	
	1RB Middle (12)	1907.5	21.14	21.27	21.12	
		1880	21.46	21.58	21.42	
		1852.5	21.37	21.72	21.48	
	1RB Low (0)	1907.5	21.09	21.21	21.26	
		1880	21.41	21.53	21.38	
		1852.5	21.27	21.68	21.45	
	12RB High (13)	1907.5	21.07	21.20	20.11	
		1880	21.37	21.49	20.34	
		1852.5	21.33	21.55	20.30	
	12RB Middle (6)	1907.5	21.17	21.28	20.07	
		1880	21.42	21.53	20.32	
		1852.5	21.37	21.56	20.38	
	12RB Low (0)	1907.5	21.13	21.29	20.22	
		1880	21.37	21.52	20.35	
		1852.5	21.37	21.55	20.43	
	25RB (0)	1907.5	21.10	21.12	20.12	
		1880	21.38	21.46	20.33	
		1852.5	21.37	21.50	20.28	
	10 MHz	1RB High (49)	1905	21.05	21.12	21.14
			1880	21.43	21.36	21.36
			1855	21.41	21.85	21.43
		1RB Middle (24)	1905	21.05	21.17	21.11
			1880	21.38	21.32	21.37
			1855	21.36	21.81	21.48
1RB Low (0)		1905	21.07	21.15	21.33	
		1880	21.42	21.37	21.39	
		1855	21.43	21.79	21.43	
25RB High (25)		1905	21.09	21.27	20.11	
		1880	21.39	21.41	20.29	
		1855	21.37	21.47	20.35	
25RB Middle (12)		1905	21.17	21.28	20.09	
		1880	21.45	21.49	20.41	
		1855	21.43	21.50	20.38	
25RB Low (0)		1905	21.14	21.23	20.20	
		1880	21.36	21.40	20.32	
		1855	21.36	21.43	20.35	
50RB (0)		1905	21.10	21.21	20.15	
		1880	21.38	21.44	20.30	
		1855	21.36	21.43	20.26	
15 MHz		1RB High (74)	1902.5	21.08	21.47	21.11
			1880	21.27	21.32	21.47
			1857.5	21.31	21.72	21.49
		1RB Middle (37)	1902.5	21.15	21.50	21.12
			1880	21.34	21.33	21.41
			1857.5	21.34	21.78	21.50

	1RB Low (0)	1902.5	21.12	21.56	21.29	
		1880	21.30	21.24	21.45	
		1857.5	21.30	21.69	21.52	
	36RB High (38)	1902.5	21.10	21.18	20.12	
		1880	21.41	21.49	20.36	
		1857.5	21.35	21.46	20.32	
	36RB Middle (19)	1902.5	21.15	21.19	20.09	
		1880	21.44	21.50	20.37	
		1857.5	21.36	21.50	20.43	
	36RB Low (0)	1902.5	21.09	21.22	20.20	
		1880	21.38	21.46	20.39	
		1857.5	21.28	21.48	20.36	
	75RB (0)	1902.5	21.10	21.21	20.16	
		1880	21.36	21.46	20.35	
		1857.5	21.28	21.48	20.29	
	20 MHz	1RB High (99)	1900	21.03	21.33	21.13
			1880	21.41	21.61	21.43
			1860	21.22	21.50	21.45
1RB Middle (50)		1900	21.10	21.36	21.15	
		1880	21.36	21.51	21.42	
		1860	21.21	21.43	21.50	
1RB Low (0)		1900	21.16	21.47	21.32	
		1880	21.33	21.71	21.45	
		1860	21.19	21.57	21.48	
50RB High (50)		1900	21.17	21.25	20.08	
		1880	21.39	21.46	20.34	
		1860	21.35	21.47	20.35	
50RB Middle (25)		1900	21.22	21.26	20.11	
		1880	21.41	21.47	20.39	
		1860	21.36	21.51	20.44	
50RB Low (0)		1900	21.28	21.34	20.22	
		1880	21.35	21.42	20.35	
		1860	21.31	21.43	20.40	
100RB (0)		1900	21.24	21.33	20.19	
		1880	21.36	21.42	20.32	
		1860	21.31	21.45	20.28	



Band 7					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2567.5	19.01	19.12	19.29
		2535	19.07	19.23	19.34
		2502.5	18.95	19.36	19.20
	1RB Middle (12)	2567.5	18.96	19.11	19.27
		2535	18.97	19.17	19.28
		2502.5	18.92	19.38	19.09
	1RB Low (0)	2567.5	18.95	19.08	19.33
		2535	18.99	19.13	19.38
		2502.5	18.91	19.32	19.26
	12RB High (13)	2567.5	18.98	19.11	19.24
		2535	18.99	19.19	19.23
		2502.5	18.93	19.19	19.05
	12RB Middle (6)	2567.5	19.00	19.11	19.29
		2535	19.00	19.20	19.21
		2502.5	19.00	19.24	18.96
	12RB Low (0)	2567.5	18.98	19.07	19.16
		2535	18.95	19.18	19.16
		2502.5	18.97	19.22	18.97
	25RB (0)	2567.5	19.01	18.99	19.17
		2535	18.99	19.13	19.17
		2502.5	18.97	19.12	19.05
10 MHz	1RB High (49)	2565	18.92	19.03	19.26
		2535	19.06	19.08	19.34
		2505	18.90	19.28	19.15
	1RB Middle (24)	2565	18.92	19.03	19.33
		2535	18.92	18.96	19.35
		2505	18.95	19.22	19.06
	1RB Low (0)	2565	18.99	19.12	19.34
		2535	18.90	18.93	19.36
		2505	18.98	19.37	19.25
	25RB High (25)	2565	18.99	19.19	19.20
		2535	19.08	19.21	19.23
		2505	18.93	19.07	19.02
	25RB Middle (12)	2565	18.98	19.19	19.24
		2535	19.08	19.20	19.21
		2505	19.06	19.18	18.98
	25RB Low (0)	2565	19.02	19.18	19.25
		2535	19.02	19.12	19.12
		2505	19.03	19.10	18.96
	50RB (0)	2565	19.07	19.19	19.18
		2535	19.05	19.14	19.13
		2505	18.90	19.05	18.97
15 MHz	1RB High (74)	2562.5	19.04	19.39	19.21
		2535	18.93	19.03	19.38

		2507.5	18.93	19.30	19.19	
	1RB Middle (37)	2562.5	18.99	19.32	19.26	
		2535	18.92	19.03	19.30	
		2507.5	19.02	19.42	19.09	
	1RB Low (0)	2562.5	19.02	19.38	19.34	
		2535	18.91	18.94	19.31	
		2507.5	19.01	19.42	19.26	
	36RB High (38)	2562.5	19.00	19.03	19.23	
		2535	19.07	19.20	19.26	
		2507.5	18.93	19.07	18.96	
	36RB Middle (19)	2562.5	19.09	19.14	19.26	
		2535	19.04	19.16	19.18	
		2507.5	18.91	19.11	18.97	
	36RB Low (0)	2562.5	19.02	19.07	19.23	
		2535	19.01	19.11	19.08	
		2507.5	18.97	19.16	18.91	
	75RB (0)	2562.5	19.02	19.17	19.17	
		2535	18.99	19.10	19.13	
		2507.5	18.89	19.03	19.00	
	20 MHz	1RB High (99)	2560	18.99	19.37	19.26
			2535	19.02	19.38	19.35
2510			18.99	19.27	19.18	
1RB Middle (50)		2560	19.04	19.38	19.32	
		2535	19.01	19.38	19.33	
		2510	18.90	19.28	19.09	
1RB Low (0)		2560	18.94	19.25	19.38	
		2535	19.03	19.29	19.35	
		2510	18.96	19.33	19.25	
50RB High (50)		2560	19.12	19.20	19.23	
		2535	19.14	19.20	19.25	
		2510	19.00	19.14	19.02	
50RB Middle (25)		2560	19.06	19.15	19.26	
		2535	19.06	19.14	19.20	
		2510	18.94	19.09	18.98	
50RB Low (0)		2560	19.04	19.15	19.22	
		2535	19.03	19.10	19.14	
		2510	18.93	19.08	18.96	
100RB (0)		2560	19.03	19.11	19.23	
		2535	19.04	19.18	19.19	
		2510	18.95	19.12	19.02	

Band 30					
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)
5 MHz	1RB High (24)	2312.5	21.26	21.33	21.13
		2310	21.29	21.40	21.21
		2307.5	21.19	21.53	21.22
	1RB Middle (12)	2312.5	21.20	21.28	21.25
		2310	21.25	21.35	21.30
		2307.5	21.15	21.48	21.31
	1RB Low (0)	2312.5	21.19	21.32	21.20
		2310	21.25	21.38	21.26
		2307.5	21.04	21.36	21.14
	12RB High (13)	2312.5	21.21	21.31	20.13
		2310	21.20	21.35	20.13
		2307.5	21.20	21.40	20.15
	12RB Middle (6)	2312.5	21.26	21.32	20.16
		2310	21.23	21.34	20.18
		2307.5	21.19	21.41	20.19
	12RB Low (0)	2312.5	21.21	21.27	20.14
		2310	21.16	21.29	20.16
		2307.5	21.04	21.27	20.06
	25RB (0)	2312.5	21.20	21.19	20.10
		2310	21.22	21.27	20.10
		2307.5	21.21	21.31	20.09
10 MHz	1RB High (49)	2310	21.31	21.57	21.23
	1RB Middle (24)	2310	21.23	21.55	21.20
	1RB Low (0)	2310	21.10	21.45	21.17
	25RB High (25)	2310	21.27	21.31	20.14
	25RB Middle (12)	2310	21.25	21.29	20.18
	25RB Low (0)	2310	21.20	21.30	20.12
	50RB (0)	2310	21.22	21.28	20.13

Band 66						
Bandwidth (MHz)	RB allocation	Frequency (MHz)	QPSK	16QAM	64QAM	
	RB offset (Start RB)		Actual output power (dBm)	Actual output power (dBm)	Actual output power (dBm)	
1.4 MHz	1RB High (5)	1779.3	20.87	20.94	21.00	
		1745	21.11	21.15	21.05	
		1710.7	20.92	21.05	21.22	
	1RB Middle (3)	1779.3	20.92	21.02	21.23	
		1745	21.14	21.23	21.27	
		1710.7	21.06	21.17	21.35	
	1RB Low (0)	1779.3	20.91	20.96	21.26	
		1745	21.09	21.16	21.33	
		1710.7	21.02	21.05	21.22	
	3RB High (3)	1779.3	20.86	20.97	20.96	
		1745	21.05	21.13	21.05	
		1710.7	21.02	21.08	21.22	
	3RB Middle (1)	1779.3	20.91	21.03	21.28	
		1745	21.09	21.19	21.35	
		1710.7	21.09	21.16	21.33	
	3RB Low (0)	1779.3	20.86	20.94	21.18	
		1745	21.07	21.15	21.30	
		1710.7	21.01	21.07	21.20	
	6RB (0)	1779.3	20.87	21.07	20.02	
		1745	21.05	21.26	20.20	
		1710.7	20.95	21.08	20.13	
	3 MHz	1RB High (14)	1778.5	20.64	20.64	20.92
			1745	20.93	20.84	21.08
			1711.5	20.76	20.75	21.25
1RB Middle (7)		1778.5	20.88	20.90	21.30	
		1745	21.16	21.07	21.35	
		1711.5	21.01	21.06	21.39	
1RB Low (0)		1778.5	20.65	20.70	21.20	
		1745	20.98	20.88	21.24	
		1711.5	20.76	20.87	21.13	
8RB High (7)		1778.5	20.73	20.98	20.02	
		1745	21.08	21.18	20.12	
		1711.5	20.89	21.16	20.15	
8RB Middle (4)		1778.5	20.83	21.02	19.99	
		1745	21.16	21.26	20.12	
		1711.5	20.97	21.25	20.07	
8RB Low (0)		1778.5	20.78	21.01	20.05	
		1745	21.11	21.21	20.22	
		1711.5	20.93	21.17	20.13	
15RB (0)		1778.5	20.80	20.93	19.95	
		1745	21.01	21.11	20.13	
		1711.5	20.92	21.04	20.08	
5 MHz		1RB High (24)	1777.5	20.79	20.91	20.92
			1745	20.99	21.07	21.08
			1712.5	20.84	20.97	21.23

	1RB Middle (12)	1777.5	20.99	21.06	21.26	
		1745	21.16	21.27	21.34	
		1712.5	20.98	21.26	21.37	
	1RB Low (0)	1777.5	20.85	20.90	21.23	
		1745	20.97	21.10	21.31	
		1712.5	20.86	21.07	21.23	
	12RB High (13)	1777.5	20.83	20.91	20.02	
		1745	21.05	21.09	20.20	
		1712.5	20.87	21.12	20.18	
	12RB Middle (6)	1777.5	20.92	21.00	20.02	
		1745	21.17	21.18	20.19	
		1712.5	20.97	21.24	20.16	
	12RB Low (0)	1777.5	20.84	20.94	20.09	
		1745	21.08	21.12	20.21	
		1712.5	20.87	21.13	20.09	
	25RB (0)	1777.5	20.84	20.90	19.93	
		1745	21.06	21.06	20.13	
		1712.5	20.87	21.10	20.13	
	10 MHz	1RB High (49)	1775	20.75	20.71	20.97
			1745	21.10	21.08	21.10
			1715	20.94	21.09	21.23
		1RB Middle (24)	1775	20.81	20.82	21.26
			1745	21.13	21.12	21.30
			1715	20.92	21.06	21.41
1RB Low (0)		1775	20.83	20.93	21.24	
		1745	21.10	21.14	21.24	
		1715	20.85	21.41	21.22	
25RB High (25)		1775	20.79	20.84	19.99	
		1745	21.09	21.17	20.16	
		1715	21.02	21.14	20.16	
25RB Middle (12)		1775	20.77	20.87	20.04	
		1745	21.15	21.09	20.16	
		1715	20.94	21.02	20.14	
25RB Low (0)		1775	20.92	20.99	20.06	
		1745	21.10	21.09	20.21	
		1715	20.89	21.05	20.19	
50RB (0)		1775	20.91	20.98	20.00	
		1745	21.09	21.18	20.13	
		1715	21.01	21.10	20.09	
15 MHz		1RB High (74)	1772.5	20.87	21.26	20.98
			1745	21.11	21.36	21.12
			1717.5	21.01	20.98	21.21
	1RB Middle (37)	1772.5	20.87	20.86	21.30	
		1745	21.12	21.44	21.27	
		1717.5	21.03	21.03	21.30	
	1RB Low (0)	1772.5	20.90	20.92	21.17	
		1745	21.04	21.41	21.23	
		1717.5	20.95	20.89	21.18	

	36RB High (38)	1772.5	20.73	20.84	20.01
		1745	20.95	21.11	20.14
		1717.5	20.92	21.06	20.08
	36RB Middle (19)	1772.5	20.89	21.01	20.05
		1745	21.01	21.19	20.21
		1717.5	21.06	21.11	20.14
	36RB Low (0)	1772.5	20.77	20.89	20.08
		1745	20.93	21.07	20.26
		1717.5	20.87	20.95	20.14
	75RB (0)	1772.5	20.83	20.91	19.97
		1745	20.95	21.06	20.14
		1717.5	20.98	21.05	20.10
20 MHz	1RB High (99)	1770	20.83	21.20	20.99
		1745	20.93	21.15	21.12
		1720	21.01	21.38	21.24
	1RB Middle (50)	1770	20.98	21.35	21.30
		1745	21.18	21.30	21.34
		1720	21.13	21.49	21.37
	1RB Low (0)	1770	20.88	21.24	21.23
		1745	21.01	21.18	21.30
		1720	20.94	21.31	21.20
	50RB High (50)	1770	20.87	20.88	20.02
		1745	21.01	21.00	20.18
		1720	20.98	21.10	20.15
	50RB Middle (25)	1770	20.86	20.96	20.02
		1745	21.00	21.02	20.19
		1720	21.02	21.14	20.14
	50RB Low (0)	1770	20.86	20.95	20.06
		1745	21.03	21.05	20.24
		1720	20.99	21.12	20.16
	100RB (0)	1770	20.86	20.94	19.98
		1745	21.02	21.03	20.17
		1720	20.95	21.11	20.10



The device supports downlink Release 10 LTE Carrier Aggregation (CA) only. It supports 2 and 3 carriers in the downlink. Other Release 10 features are not supported, including Uplink Carrier Aggregation, Enhanced SC-FDMA and Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications. According to KDB 941225 D05A, the downlink LTE CA SAR test is not required and PAG requirements can be excluded.

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 Conducted Power are as below (3CA) – Normal power:

PCC								SCC1			SCC2			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 Chann el	PCC DL Chan nel	SCC Band	SCC Band width (MHz)	SCC DL Chan nel	SCC Band	SCC Band width (MHz)	SCC DL Chan nel	Rel 8 LTETx Power (dBm)	Rel 10 DL LTE CA Tx Power (dBm)
2	20	1	0	100	0	19100	1100	2	20	700	4	20	2175	23.32	23.3
2	20	1	0	100	0	19100	1100	2	5	625	5	10	2525	23.32	23.28
2	20	1	0	100	0	19100	1100	2	20	700	12	5	5035	23.32	23.3
2	20	1	0	100	0	19100	1100	2	20	700	13	10	5230	23.32	23.29
2	20	1	0	100	0	19100	1100	2	20	700	66	5	66461	23.32	23.23
2	20	1	50	100	0	18900	900	4	20	2300	4	20	2050	23.53	23.34
2	20	1	50	100	0	18900	900	4	20	2175	5	10	2525	23.53	23.33
2	20	1	50	100	0	18900	900	4	20	2175	7	20	3100	23.53	23.22
2	20	1	50	100	0	18900	900	4	20	2175	12	10	5095	23.53	23.34
2	20	1	50	100	0	18900	900	4	20	2175	13	10	5230	23.53	23.33
2	20	1	50	100	0	18900	900	4	20	2175	29	10	9715	23.53	23.34
2	20	1	50	100	0	18900	900	5	10	2525	30	10	9820	23.53	23.29
2	20	1	50	100	0	18900	900	5	10	2525	66	20	66786	23.53	23.28
2	20	1	50	100	0	18900	900	7	20	3001	7	20	3199	23.53	23.29
2	20	1	50	100	0	18900	900	7	20	3100	12	10	5095	23.53	23.28
2	20	1	50	100	0	18900	900	12	10	5095	30	10	9820	23.53	23.33
2	20	1	50	100	0	18900	900	12	10	5095	66	20	66786	23.53	23.34
2	20	1	50	100	0	18900	900	13	10	5230	66	20	66786	23.53	23.27
2	20	1	50	100	0	18900	900	29	10	9715	30	10	9820	23.53	23.4
2	20	1	50	100	0	18900	900	66	20	66536	66	20	67236	23.53	23.23



2	20	1	50	100	0	18900	900	66	20	66787	66	20	66985	23.53	23.33
5	5	1	0	25	0	20625	2625	5	10	2525	66	20	66786	23.30	23.07
5	5	1	0	25	0	20625	2625	30	10	9820	66	20	66786	23.30	23.09
5	5	1	0	25	0	20625	2625	66	20	66536	66	20	67236	23.30	23.07
5	5	1	0	25	0	20625	2625	66	20	66787	66	20	66985	23.30	23.12
5	5	1	0	25	0	20625	2625	66	10	66837	66	10	66936	23.30	23.07
12	5	1	12	25	0	23095	5095	30	10	9820	66	20	66786	23.08	23.05
12	5	1	12	25	0	23095	5095	66	20	66536	66	20	67236	23.08	23.04
13	5	1	0	25	0	23230	5230	66	20	67236	66	20	66536	23.34	23.14
13	5	1	0	25	0	23230	5230	66	20	67036	66	20	67234	23.34	23.25
13	5	1	0	25	0	23230	5230	66	10	67086	66	10	67185	23.34	23.14
66	15	1	37	75	0	132047	66511	66	15	66661	66	15	66811	23.39	23.08
66	15	1	37	75	0	132047	66511	66	20	66787	66	20	66985	23.39	23.09

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

The conducted power measurement results of downlink LTE CA Condued Power are as below (2CA) – 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 LTETx Power (dBm)	Rel 10 DL LTE CA Tx Power (dBm)
2A-2A	2	10	1	0	50	0	18650	650	2	20	1100	23.41	23.39
2C	2	20	1	0	100	0	19100	1100	2	20	902	23.32	23.16
2A-4A	2	20	1	50	100	0	18900	900	4	20	2050	23.53	23.26
2A-5A	2	20	1	50	100	0	18900	900	5	10	2525	23.53	23.35
2A-7A	2	20	1	50	100	0	18900	900	7	20	3100	23.53	23.37
2A-12A	2	20	1	50	100	0	18900	900	12	10	5095	23.53	23.38
2A-13A	2	20	1	50	100	0	18900	900	13	10	5230	23.53	23.39
2A-29A	2	20	1	50	100	0	18900	900	29	10	9715	23.53	23.36
2A-30A	2	20	1	50	100	0	18900	900	30	10	9820	23.53	23.32
2A-66A	2	20	1	50	100	0	18900	900	66	20	66786	23.53	23.4
5A-5A	5	5	1	0	25	0	20625	2625	5	10	2450	23.30	23.09
5B	5	5	1	0	25	0	20625	2625	5	3	2586	23.30	23.21
5A-2A	5	5	1	0	25	0	20625	2625	2	20	900	23.30	23.2
5A-4A	5	5	1	0	25	0	20625	2625	4	20	2050	23.30	23.2
5A-30A	5	5	1	0	25	0	20625	2625	30	10	9820	23.30	23.21
5A-66A	5	5	1	0	25	0	20625	2625	66	20	66786	23.30	23.21
7A-7A	7	15	1	74	75	0	20825	2825	7	20	3350	23.22	23.21
7A-2A	7	15	1	74	75	0	20825	2825	2	20	900	23.22	23.22
7A-3A	7	15	1	74	75	0	20825	2825	3	20	1575	23.22	23.21





7A-4A	7	15	1	74	75	0	20825	2825	4	20	2050	23.22	23.21
7A-12A	7	15	1	74	75	0	20825	2825	12	10	5095	23.22	23.22
12B	12	5	1	12	25	0	23155	5155	12	5	5107	23.01	23.
12A-2A	12	5	1	12	25	0	23095	5095	2	20	900	23.08	23.07
12A-4A	12	5	1	12	25	0	23095	5095	4	20	2050	23.08	23.06
12A-7A	12	5	1	12	25	0	23095	5095	7	20	3100	23.08	23.08
12A-30A	12	5	1	12	25	0	23095	5095	30	10	9820	23.08	23.06
12A-66A	12	5	1	12	25	0	23095	5095	66	20	66786	23.08	23.08
13A-2A	13	10	1	0	50	0	23230	5230	2	20	900	23.21	23.11
30A-2A	30	5	1	24	25	0	27710	9820	2	20	900	23.25	23.25
30A-4A	30	5	1	24	25	0	27710	9820	4	20	2050	23.25	23.24
30A-5A	30	5	1	24	25	0	27710	9820	5	10	2525	23.25	23.25
30A-12A	30	5	1	24	25	0	27710	9820	12	10	5095	23.25	23.25
30A-29A	30	5	1	24	25	0	27710	9820	29	10	9715	23.25	23.24
30A-66A	30	5	1	24	25	0	27710	9820	66	20	66786	23.25	23.25
38C	38	15	1	0	75	0	37825	37825	38	15	37975	23.03	22.84
41C	41	20	1	0	100	0	39750	39750	41	20	39948	23.08	22.56
66A-66A	66	15	1	37	75	0	132047	66511	66	20	67236	23.39	22.96
66B	66	15	1	37	75	0	132047	66511	66	5	66604	23.39	22.9
66C	66	15	1	37	75	0	132047	66511	66	15	66661	23.39	22.9
66A-2A	66	15	1	37	75	0	132322	66786	2	20	900	23.39	22.78
66A-5A	66	15	1	37	75	0	132322	66786	5	10	2525	23.39	22.77
66A-12A	66	15	1	37	75	0	132322	66786	12	10	5095	23.39	22.8
66A-29A	66	15	1	37	75	0	132322	66786	29	10	9715	23.39	22.81
66A-30A	66	15	1	37	75	0	132322	66786	30	10	9820	23.39	22.81

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

The conducted power measurement results of downlink LTE CA Conduced Power are as below (3CA) – Low power:

PCC								SCC1			SCC2			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 Chann el	PCC DL Chan nel	SCC Band	SCC Band width (MHz)	SCC DL Chan nel	SCC Band	SCC Band width (MHz)	SCC DL Chan nel	Rel 8 LTETx Power (dBm)	Rel 10 DL LTE CA Tx Power (dBm)
2	20	50	25	100	0	18700	700	2	20	1100	4	20	2175	21.36	21.24
2	20	50	25	100	0	18700	700	2	20	1100	5	10	2525	21.36	21.25
2	20	50	25	100	0	18700	700	2	20	1100	12	10	5095	21.36	21.24
2	20	50	25	100	0	18700	700	2	20	1100	13	10	5230	21.36	21.24
2	20	50	25	100	0	18700	700	2	20	1100	66	20	66786	21.36	21.26
2	5	1	12	25	0	18900	900	4	20	2050	4	20	2300	21.46	21.35
2	5	1	12	25	0	18900	900	4	20	2175	5	10	2525	21.46	21.34



2	5	1	12	25	0	18900	900	4	20	2175	7	20	3100	21.46	21.35
2	5	1	12	25	0	18900	900	4	20	2175	12	10	5095	21.46	21.38
2	5	1	12	25	0	18900	900	4	20	2175	13	10	5230	21.46	21.31
2	5	1	12	25	0	18900	900	4	20	2175	29	10	9715	21.46	21.28
2	5	1	12	25	0	18900	900	5	10	2525	30	10	9820	21.46	21.33
2	5	1	12	25	0	18900	900	5	10	2525	66	20	66786	21.46	21.32
2	5	1	12	25	0	18900	900	7	20	2850	7	20	3199	21.46	21.25
2	5	1	12	25	0	18900	900	7	20	3100	12	10	5095	21.46	21.3
2	5	1	12	25	0	18900	900	12	10	5095	30	10	9820	21.46	21.3
2	5	1	12	25	0	18900	900	12	10	5095	66	20	66786	21.46	21.32
2	5	1	12	25	0	18900	900	13	10	5230	66	20	66786	21.46	21.3
2	5	1	12	25	0	18900	900	29	10	9715	30	10	9820	21.46	21.32
2	5	1	12	25	0	18900	900	66	20	66536	66	20	67236	21.46	21.3
2	5	1	12	25	0	18900	900	66	20	66787	66	20	66985	21.46	21.31
66	20	1	50	100	0	132072	66536	66	20	66734	66	20	66932	21.13	20.98
66	20	1	50	100	0	132072	66536	66	20	66787	66	20	66985	21.13	20.9

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

The conducted power measurement results of downlink LTE CA Conducted Power are as below (2CA) – 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 LTETx Power (dBm)	Rel 10 DL LTE CA Tx Power (dBm)
2A-2A	2	10	1	0	50	0	18650	650	2	20	1100	21.43	21.22
2C	2	20	50	25	100	0	18700	700	2	20	898	21.36	21.26
2A-4A	2	5	1	12	25	0	18900	900	4	20	2050	21.46	21.32
2A-5A	2	5	1	12	25	0	18900	900	5	10	2525	21.46	21.41
2A-7A	2	5	1	12	25	0	18900	900	7	20	3100	21.46	21.4
2A-12A	2	5	1	12	25	0	18900	900	12	10	5095	21.46	21.39
2A-13A	2	5	1	12	25	0	18900	900	13	10	5230	21.46	21.39
2A-29A	2	5	1	12	25	0	18900	900	29	10	9715	21.46	21.44
2A-30A	2	5	1	12	25	0	18900	900	30	10	9820	21.46	21.41
2A-66A	2	5	1	12	25	0	18900	900	66	20	66786	21.46	21.42
7A-7A	7	20	50	50	100	0	21350	3350	7	20	2850	19.12	18.72
7A-2A	7	20	50	50	100	0	21100	3100	2	20	900	19.14	18.59
7A-3A	7	20	50	50	100	0	21100	3100	3	20	1575	19.14	18.62
7A-4A	7	20	50	50	100	0	21100	3100	4	20	2050	19.14	18.6
7A-12A	7	20	50	50	100	0	21100	3100	12	10	5095	19.14	18.6
30A-2A	30	10	1	49	50	0	27710	9820	2	20	900	21.31	21.14



30A-4A	30	10	1	49	50	0	27710	9820	4	20	2050	21.31	21.12
30A-5A	30	10	1	49	50	0	27710	9820	5	10	2525	21.31	21.12
30A-12A	30	10	1	49	50	0	27710	9820	12	10	5095	21.31	21.08
30A-29A	30	10	1	49	50	0	27710	9820	29	10	9715	21.31	21.08
30A-66A	30	10	1	49	50	0	27710	9820	66	20	66786	21.31	21.11
66A-66A	66	20	1	50	100	0	132072	66536	66	20	67236	21.13	20.86
66B	66	15	36	19	75	0	132047	66511	66	5	66604	21.06	20.82
66C	66	20	1	50	100	0	132072	66536	66	20	66734	21.13	20.86
66A-2A	66	20	1	50	100	0	132322	66786	2	20	900	21.18	20.83
66A-5A	66	20	1	50	100	0	132322	66786	5	10	2525	21.18	20.83
66A-12A	66	20	1	50	100	0	132322	66786	12	10	5095	21.18	20.84
66A-29A	66	20	1	50	100	0	132322	66786	29	10	9715	21.18	20.84
66A-30A	66	20	1	50	100	0	132322	66786	30	10	9820	21.18	20.82

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	3.69	3.06	4.14
Tune up	<b>5</b>	<b>5</b>	<b>6</b>
EDR2M-4_DQPSK	0.72	0.08	1.35
Tune up	<b>2</b>	<b>2</b>	<b>3</b>
EDR3M-8DPSK	0.80	-0.11	1.35
Tune up	<b>2</b>	<b>1.5</b>	<b>3</b>

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

#### Normal Power

802.11b (dBm)

Channel\data rate	1Mbps	2Mbps	5.5Mbps	11Mbps
1	18.42	/	/	/
6	18.50	18.24	18.28	18.19
11	18.32	/	/	/
Tune up	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>

802.11g (dBm)

Channel\data rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
1	16.93	/	/	17.09	/	/	/	/
6	16.95	16.88	16.75	17.41	17.07	17.06	16.68	16.54
11	16.14	/	/	16.48	/	/	/	/
Tune up	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>

802.11n (dBm) - HT20 (2.4G)

Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
1	15.79	/	16.21	/	/	/	/	/
6	15.85	15.51	16.24	16.06	15.98	15.76	15.66	15.55
11	15.16	/	15.67	/	/	/	/	/
Tune up	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>

802.11n (dBm) – HT40 (2.4G)

Channel\data rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
3	16.99	16.84	16.69	16.49	16.54	16.27	16.13	15.98
6	16.97	/	/	/	/	/	/	/
9	16.53	/	/	/	/	/	/	/
Tune up	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>



802.11a (dBm)

Channel\data rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
36	17.93	17.89	17.78	18.27	17.94	17.38	17.07	16.93
40	17.87			18.21				
44	17.36			17.75				
48	17.34			16.53				
Tune up	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>
52	17.48			17.71				
56	17.81			17.94				
60	17.89			17.95				
64	17.91	17.81	17.69	17.99	17.76	17.27	17.04	16.85
Tune up	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>
100	17.09			17.65				
104	17.09			17.34				
108	16.91			17.11				
112	16.96			17.19				
116	17.13			17.31				
120	17.37			17.59				
124	17.55			17.74				
128	17.61			17.87				
132	17.65	17.46	17.35	17.89	17.48	16.93	16.67	16.58
136	17.55			17.82				
140	17.57			17.78				
144	17.42			17.69				
Tune up	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>
149	17.49			18.02				
153	17.82			18.01				
157	18.12	18.09	17.89	18.29	17.99	17.39	17.13	17.01
161	17.98			18.27				
165	18.09			18.28				
Tune up	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>

**Low Power**

802.11b (dBm)

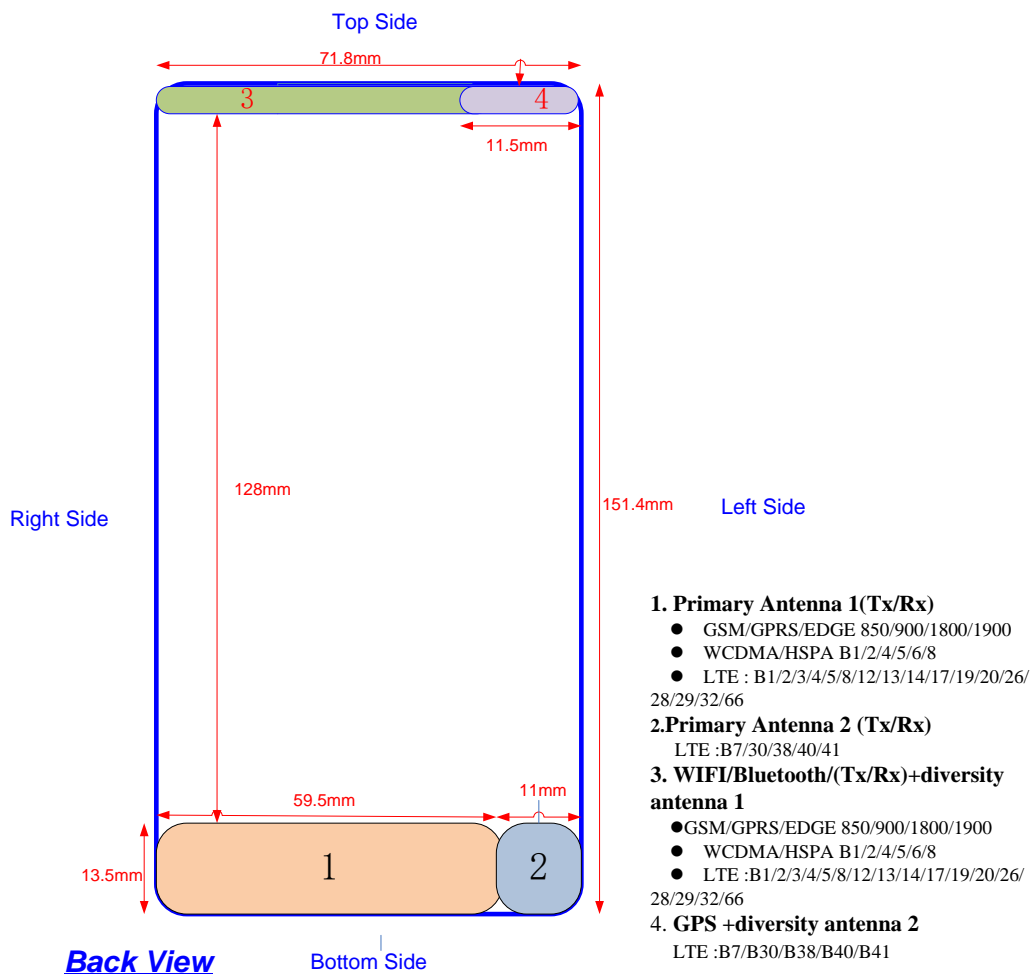
Channel\data rate	1Mbps	2Mbps	5.5Mbps	11Mbps
1	17.21	17.48	/	/
6	17.27	17.52	17.43	17.33
11	16.63	17.03	/	/
Tune up	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>	<b>18.5</b>

## 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:

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

- f(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	6	3.98	Yes
		Body	19.20	6	3.98	Yes
2.4GHz WLAN	2.45	Head	9.58	20	100	No
		Body	19.17	20	100	No

### 13 Evaluation of Simultaneous

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

	Position	Main antenna	WiFi	Sum
<b>Highest reported SAR value for Head</b>	Left hand, Touch cheek	0.54	1.04	<b>1.58</b>
	Right hand, Touch cheek	0.39	0.90	<b>1.29</b>
<b>Highest reported SAR value for Body</b>	Rear 10mm	1.05	0.16	<b>1.21</b>
	Bottom 10mm	1.36	/	<b>1.36</b>

Note1: we have evaluated and chose the highest value of WiFi 2.4G and 5G in the above table.

Note2: we have evaluated and chose the highest value of body 10mm and 15mm in the above table.

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

	Position	Main antenna	BT	Sum
<b>Maximum reported SAR value for Head</b>	Left hand, Touch cheek	0.54	0.17 <sup>[1]</sup>	<b>0.71</b>
<b>Maximum reported SAR value for Body</b>	Rear 10mm	1.05	0.08 <sup>[1]</sup>	<b>1.13</b>
	Bottom 10mm	1.36	/	<b>1.36</b>

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

**Table 13.3: Estimated SAR for Bluetooth**

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

\* - Maximum possible output power declared by manufacturer

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

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

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

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

#### Conclusion:

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



## 14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom. The distance is 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  $P_{\text{Target}}$  is the power of manufacturing upper limit;

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

**Table 14.1: Duty Cycle**

Mode	Duty Cycle
Speech for GSM850	1:2
Speech for GSM1900	1:2.67
GPRS&EGPRS for GSM850	1:2
GPRS&EGPRS for GSM1900	1:2.67
WCDMA&LTE 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	/	28.65	29.5	0.166	<b>0.20</b>	0.205	<b>0.25</b>	0.02
190	836.6	Left	Tilt	/	28.65	29.5	0.092	<b>0.11</b>	0.143	<b>0.17</b>	-0.07
251	848.8	Right	Touch	Fig.1	28.70	29.5	0.254	<b>0.31</b>	0.322	<b>0.39</b>	0.08
190	836.6	Right	Touch	/	28.65	29.5	0.213	<b>0.26</b>	0.273	<b>0.33</b>	0.12
128	824.2	Right	Touch	/	28.62	29.5	0.229	<b>0.28</b>	0.288	<b>0.35</b>	0.07
190	836.6	Right	Tilt	/	28.65	29.5	0.075	<b>0.09</b>	0.097	<b>0.12</b>	-0.03

Note: the head SAR of GSM850 is tested with GPRS (4Txslots) 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										
190	836.6	GPRS (4)	Front	/	28.65	29.5	0.316	<b>0.38</b>	0.596	<b>0.72</b>	0.05
251	848.8	GPRS (4)	Rear	Fig.2	28.70	29.5	0.367	<b>0.44</b>	0.620	<b>0.75</b>	-0.03
190	836.6	GPRS (4)	Rear	/	28.65	29.5	0.363	<b>0.44</b>	0.611	<b>0.74</b>	0.11
128	824.2	GPRS (4)	Rear	/	28.62	29.5	0.290	<b>0.36</b>	0.564	<b>0.69</b>	0.16
190	836.6	GPRS (4)	Left	/	28.65	29.5	0.055	<b>0.07</b>	0.093	<b>0.11</b>	0.03
190	836.6	GPRS (4)	Right	/	28.65	29.5	0.132	<b>0.16</b>	0.231	<b>0.28</b>	-0.08
190	836.6	GPRS (4)	Bottom	/	28.65	29.5	0.148	<b>0.18</b>	0.331	<b>0.40</b>	0.19
251	848.8	EGPRS (4)	Rear	/	28.61	29.5	0.321	<b>0.39</b>	0.585	<b>0.72</b>	0.03

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	Fig.3	27.95	29	0.207	<b>0.26</b>	0.426	<b>0.54</b>	-0.18
661	1880	Left	Touch	/	27.91	29	0.183	<b>0.24</b>	0.380	<b>0.49</b>	0.03
512	1850.2	Left	Touch	/	27.82	29	0.136	<b>0.18</b>	0.275	<b>0.36</b>	-0.09
661	1880	Left	Tilt	/	27.91	29	0.068	<b>0.09</b>	0.161	<b>0.21</b>	0.01
661	1880	Right	Touch	/	27.91	29	0.095	<b>0.12</b>	0.182	<b>0.23</b>	0.02
661	1880	Right	Tilt	/	27.91	29	0.046	<b>0.06</b>	0.093	<b>0.12</b>	0.08

Note: the head SAR of GSM1900 is tested with GPRS (3Txslots) 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										
661	1880	GPRS (3)	Front	/	27.52	28	0.216	<b>0.24</b>	0.361	<b>0.40</b>	0.04
661	1880	GPRS (3)	Rear	/	27.52	28	0.337	<b>0.38</b>	0.634	<b>0.71</b>	0.09
661	1880	GPRS (3)	Left	/	27.52	28	0.039	<b>0.04</b>	0.061	<b>0.07</b>	0.18
661	1880	GPRS (3)	Right	/	27.52	28	0.062	<b>0.07</b>	0.114	<b>0.13</b>	0.02
810	1909.8	GPRS (3)	Bottom	/	27.56	28	0.452	<b>0.50</b>	0.802	<b>0.89</b>	-0.08
661	1880	GPRS (3)	Bottom	/	27.52	28	0.406	<b>0.45</b>	0.711	<b>0.79</b>	0.11
512	1850.2	GPRS (3)	Bottom	Fig.4	27.56	28	0.474	<b>0.52</b>	0.844	<b>0.93</b>	-0.13
512	1850.2	EGPRS (3)	Bottom	/	27.53	28	0.418	<b>0.47</b>	0.788	<b>0.88</b>	-0.06

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

**Table 14.1-5: 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										
661	1880	GPRS (3)	Front	/	27.91	29	0.122	<b>0.16</b>	0.211	<b>0.27</b>	0.03
810	1909.8	GPRS (3)	Rear	Fig.5	27.95	29	0.229	<b>0.29</b>	0.397	<b>0.51</b>	-0.03
661	1880	GPRS (3)	Rear	/	27.91	29	0.192	<b>0.25</b>	0.328	<b>0.42</b>	0.11
512	1850.2	GPRS (3)	Rear	/	27.82	29	0.173	<b>0.23</b>	0.294	<b>0.39</b>	0.08

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

**Table 14.1-6: 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	/	23.56	24	0.140	<b>0.15</b>	0.169	<b>0.19</b>	0.08
4182	836.4	Left	Tilt	/	23.56	24	0.115	<b>0.13</b>	0.151	<b>0.17</b>	-0.02
4233	846.6	Right	Touch	/	23.68	24	0.203	<b>0.22</b>	0.258	<b>0.28</b>	0.08
4182	836.4	Right	Touch	Fig.6	23.56	24	0.206	<b>0.23</b>	0.262	<b>0.29</b>	0.13
4132	826.4	Right	Touch	/	23.58	24	0.190	<b>0.21</b>	0.240	<b>0.26</b>	0.11
4182	836.4	Right	Tilt	/	23.56	24	0.115	<b>0.13</b>	0.149	<b>0.16</b>	0.09

**Table 14.1-7: SAR Values (WCDMA 850 MHz Band - Body)**

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz			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)	
4182	836.4	Front	/	23.56	24	0.213	<b>0.24</b>	0.381	<b>0.42</b>	0.09
4233	846.6	Rear	Fig.7	23.68	24	0.259	<b>0.28</b>	0.432	<b>0.47</b>	-0.09
4182	836.4	Rear	/	23.56	24	0.246	<b>0.27</b>	0.410	<b>0.45</b>	0.12
4132	826.4	Rear	/	23.58	24	0.255	<b>0.28</b>	0.421	<b>0.46</b>	0.06
4182	836.4	Left	/	23.56	24	0.059	<b>0.07</b>	0.098	<b>0.11</b>	-0.03
4182	836.4	Right	/	23.56	24	0.064	<b>0.07</b>	0.107	<b>0.12</b>	0.02
4182	836.4	Bottom	/	23.56	24	0.108	<b>0.12</b>	0.250	<b>0.28</b>	0.09

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

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

Frequency		Side	Test Position	Figure No./Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz				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)	
1738	1752.6	Left	Touch	/	23.39	24	0.049	<b>0.06</b>	0.075	<b>0.09</b>	0.09
1637	1732.4	Left	Touch	/	23.41	24	0.072	<b>0.08</b>	0.113	<b>0.13</b>	-0.03
1537	1712.4	Left	Touch	Fig.8	23.55	24	0.088	<b>0.10</b>	0.133	<b>0.15</b>	0.01
1637	1732.4	Left	Tilt	/	23.41	24	0.023	<b>0.03</b>	0.038	<b>0.04</b>	0.03
1637	1732.4	Right	Touch	/	23.41	24	0.050	<b>0.06</b>	0.074	<b>0.08</b>	-0.09
1637	1732.4	Right	Tilt	/	23.41	24	0.026	<b>0.03</b>	0.043	<b>0.05</b>	0.02

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

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				Power Drift (dB)
Ch.	MHz			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)	
1637	1732.4	Front	/	21.48	22	0.214	<b>0.24</b>	0.353	<b>0.40</b>	0.03
1738	1752.6	Rear	Fig.9	21.46	22	0.493	<b>0.56</b>	0.927	<b>1.05</b>	-0.03
1637	1732.4	Rear	/	21.48	22	0.454	<b>0.51</b>	0.851	<b>0.96</b>	0.11
1537	1712.4	Rear	/	21.49	22	0.369	<b>0.41</b>	0.700	<b>0.79</b>	0.09
1637	1732.4	Left	/	21.48	22	0.043	<b>0.05</b>	0.068	<b>0.08</b>	-0.02
1637	1732.4	Right	/	21.48	22	0.074	<b>0.08</b>	0.135	<b>0.15</b>	0.13
1637	1732.4	Bottom	/	21.48	22	0.317	<b>0.36</b>	0.567	<b>0.64</b>	0.06

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

**Table 14.1-10: SAR Values (WCDMA 1700 MHz Band - Body)**

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				
Ch.	MHz			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)
1637	1732.4	Front	/	23.41	24	0.174	<b>0.20</b>	0.280	<b>0.32</b>	0.04
1738	1752.6	Rear	/	23.39	24	0.240	<b>0.28</b>	0.398	<b>0.46</b>	-0.02
1637	1732.4	Rear	/	23.41	24	0.308	<b>0.35</b>	0.506	<b>0.58</b>	0.09
1537	1712.4	Rear	Fig.10	23.55	24	0.356	<b>0.39</b>	0.588	<b>0.65</b>	0.03

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

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

Frequency		Side	Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				
Ch.	MHz				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)
9938	1907.6	Left	Touch	Fig.11	23.57	24	0.114	<b>0.13</b>	0.180	<b>0.20</b>	0.05
9800	1880	Left	Touch	/	23.70	24	0.109	<b>0.12</b>	0.172	<b>0.18</b>	-0.03
9662	1852.4	Left	Touch	/	23.74	24	0.094	<b>0.10</b>	0.145	<b>0.15</b>	0.01
9800	1880	Left	Tilt	/	23.70	24	0.033	<b>0.04</b>	0.058	<b>0.06</b>	0.09
9800	1880	Right	Touch	/	23.70	24	0.067	<b>0.07</b>	0.099	<b>0.11</b>	0.02
9800	1880	Right	Tilt	/	23.70	24	0.033	<b>0.04</b>	0.053	<b>0.06</b>	-0.01

**Table 14.1-12: SAR Values (WCDMA 1900 MHz Band - Body)**

Frequency		Test Position	Figure No./ Note	Ambient Temperature: 22.9°C		Liquid Temperature: 22.5°C				
Ch.	MHz			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)
9800	1880	Front	/	21.81	22	0.344	<b>0.36</b>	0.542	<b>0.57</b>	0.04
9938	1907.6	Rear	/	21.69	22	0.574	<b>0.62</b>	0.932	<b>1.00</b>	0.09
9800	1880	Rear	/	21.81	22	0.525	<b>0.55</b>	0.848	<b>0.89</b>	-0.01
9662	1852.4	Rear	/	21.84	22	0.506	<b>0.52</b>	0.821	<b>0.85</b>	0.19
9800	1880	Left	/	21.81	22	0.063	<b>0.07</b>	0.092	<b>0.10</b>	0.02
9800	1880	Right	/	21.81	22	0.112	<b>0.12</b>	0.195	<b>0.20</b>	0.03
9938	1907.6	Bottom	/	21.69	22	0.591	<b>0.63</b>	0.994	<b>1.07</b>	-0.09
9800	1880	Bottom	Fig.12	21.81	22	0.617	<b>0.64</b>	1.04	<b>1.09</b>	0.03
9662	1852.4	Bottom	/	21.84	22	0.505	<b>0.52</b>	0.824	<b>0.85</b>	0.11

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

**Table 14.1-13: SAR Values (WCDMA 1900 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									
9800	1880	Front	/	23.70	24	0.181	<b>0.19</b>	0.314	<b>0.34</b>	0.04
9938	1907.6	Rear	/	23.57	24	0.261	<b>0.29</b>	0.449	<b>0.50</b>	-0.01
9800	1880	Rear	Fig.13	23.70	24	0.273	<b>0.29</b>	0.472	<b>0.51</b>	0.01
9662	1852.4	Rear	/	23.74	24	0.246	<b>0.26</b>	0.422	<b>0.45</b>	0.03

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

**Table 14.1-14: SAR Values (LTE Band2 - Head)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
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											
18900	1880	1RB_Mid	Left	Touch	Fig.14	23.53	24	0.138	<b>0.15</b>	0.229	<b>0.26</b>	0.02
18900	1880	1RB_Mid	Left	Tilt	/	23.53	24	0.047	<b>0.05</b>	0.094	<b>0.10</b>	-0.08
18900	1880	1RB_Mid	Right	Touch	/	23.53	24	0.100	<b>0.11</b>	0.168	<b>0.19</b>	0.01
18900	1880	1RB_Mid	Right	Tilt	/	23.53	24	0.040	<b>0.04</b>	0.080	<b>0.09</b>	0.18
18900	1880	50RB_Mid	Left	Touch	/	22.57	23	0.106	<b>0.12</b>	0.191	<b>0.21</b>	0.05
18900	1880	50RB_Mid	Left	Tilt	/	22.57	23	0.036	<b>0.04</b>	0.073	<b>0.08</b>	0.12
18900	1880	50RB_Mid	Right	Touch	/	22.57	23	0.066	<b>0.07</b>	0.110	<b>0.12</b>	0.09
18900	1880	50RB_Mid	Right	Tilt	/	22.57	23	0.027	<b>0.03</b>	0.056	<b>0.06</b>	-0.05

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.1-15: SAR Values (LTE Band2 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
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										
18900	1880	1RB_High	Front	/	21.41	22	0.248	<b>0.28</b>	0.457	<b>0.52</b>	0.04
18900	1880	1RB_High	Rear	/	21.41	22	0.357	<b>0.41</b>	0.701	<b>0.80</b>	0.12
18900	1880	1RB_High	Left	/	21.41	22	0.053	<b>0.06</b>	0.086	<b>0.10</b>	0.08
18900	1880	1RB_High	Right	/	21.41	22	0.076	<b>0.09</b>	0.157	<b>0.18</b>	0.16
19100	1900	1RB_Low	Bottom	/	21.16	22	0.432	<b>0.52</b>	0.817	<b>0.99</b>	0.03
18900	1880	1RB_High	Bottom	/	21.41	22	0.462	<b>0.53</b>	0.869	<b>1.00</b>	0.06
18700	1860	1RB_High	Bottom	/	21.22	22	0.413	<b>0.49</b>	0.769	<b>0.92</b>	0.05
18900	1880	50RB_Mid	Front	/	21.41	22	0.276	<b>0.32</b>	0.483	<b>0.55</b>	0.01
18900	1880	50RB_Mid	Rear	/	21.41	22	0.379	<b>0.43</b>	0.691	<b>0.79</b>	0.19
18900	1880	50RB_Mid	Left	/	21.41	22	0.044	<b>0.05</b>	0.068	<b>0.08</b>	-0.03

18900	1880	50RB_Mid	Right	/	21.41	22	0.088	<b>0.10</b>	0.168	<b>0.19</b>	0.01
19100	1900	50RB_Low	Bottom	Fig.15	21.28	22	0.587	<b>0.69</b>	1.10	<b>1.30</b>	0.04
18900	1880	50RB_Mid	Bottom	/	21.41	22	0.578	<b>0.66</b>	1.08	<b>1.23</b>	0.15
18700	1860	50RB_Mid	Bottom	/	21.36	22	0.579	<b>0.67</b>	1.08	<b>1.25</b>	-0.08
18900	1880	100RB	Bottom	/	21.36	22	0.582	<b>0.67</b>	1.08	<b>1.25</b>	-0.04
19100	1900	50RB_Low	Bottom	Headset	21.28	22	0.450	<b>0.53</b>	0.85	<b>1.01</b>	-0.03

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

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.1-16: SAR Values (LTE Band2 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
Frequency		Mode	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										
18900	1880	1RB_Mid	Front	/	23.53	24	0.197	<b>0.22</b>	0.334	<b>0.37</b>	0.08
18900	1880	1RB_Mid	Rear	Fig.16	23.53	24	0.281	<b>0.31</b>	0.491	<b>0.55</b>	0.16
18900	1880	50RB_Mid	Front	/	22.57	23	0.158	<b>0.17</b>	0.269	<b>0.30</b>	0.03
18900	1880	50RB_Mid	Rear	/	22.57	23	0.224	<b>0.25</b>	0.393	<b>0.43</b>	-0.09

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

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.1-17: SAR Values (LTE Band5 - Head)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
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											
20600	844	1RB_High	Left	Touch	/	23.16	24	0.127	<b>0.15</b>	0.158	<b>0.19</b>	0.04
20600	844	1RB_High	Left	Tilt	/	23.16	24	0.091	<b>0.11</b>	0.114	<b>0.14</b>	-0.01
20600	844	1RB_High	Right	Touch	Fig.17	23.16	24	0.167	<b>0.20</b>	0.216	<b>0.26</b>	0.04
20600	844	1RB_High	Right	Tilt	/	23.16	24	0.081	<b>0.10</b>	0.101	<b>0.12</b>	0.19
20600	844	25RB_Mid	Left	Touch	/	22.20	23	0.103	<b>0.12</b>	0.127	<b>0.15</b>	0.02
20600	844	25RB_Mid	Left	Tilt	/	22.20	23	0.071	<b>0.09</b>	0.089	<b>0.11</b>	0.08
20600	844	25RB_Mid	Right	Touch	/	22.20	23	0.134	<b>0.16</b>	0.173	<b>0.21</b>	-0.05
20600	844	25RB_Mid	Right	Tilt	/	22.20	23	0.064	<b>0.08</b>	0.080	<b>0.10</b>	0.04

Note1: The LTE mode is QPSK\_10MHz.

**Table 14.1-18: 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										
20600	844	1RB_High	Front	/	23.16	24	0.217	<b>0.26</b>	0.360	<b>0.44</b>	0.09
20600	844	1RB_High	Rear	Fig.18	23.16	24	0.272	<b>0.33</b>	0.386	<b>0.47</b>	-0.01
20600	844	1RB_High	Left	/	23.16	24	0.065	<b>0.08</b>	0.096	<b>0.12</b>	0.12
20600	844	1RB_High	Right	/	23.16	24	0.191	<b>0.23</b>	0.313	<b>0.38</b>	0.09
20600	844	1RB_High	Bottom	/	23.16	24	0.109	<b>0.13</b>	0.228	<b>0.28</b>	0.04
20600	844	25RB_Mid	Front	/	22.20	23	0.176	<b>0.21</b>	0.288	<b>0.35</b>	0.07
20600	844	25RB_Mid	Rear	/	22.20	23	0.226	<b>0.27</b>	0.324	<b>0.39</b>	0.14
20600	844	25RB_Mid	Left	/	22.20	23	0.050	<b>0.06</b>	0.073	<b>0.09</b>	0.08
20600	844	25RB_Mid	Right	/	22.20	23	0.155	<b>0.19</b>	0.231	<b>0.28</b>	0.09
20600	844	25RB_Mid	Bottom	/	22.20	23	0.088	<b>0.11</b>	0.184	<b>0.22</b>	0.01

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

Note2: The LTE mode is QPSK\_10MHz.

**Table 14.1-19: 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											
20850	2510	1RB_Low	Left	Touch	Fig.19	23.05	23.9	0.086	<b>0.10</b>	0.169	<b>0.21</b>	-0.09
20850	2510	1RB_Low	Left	Tilt	/	23.05	23.9	0.031	<b>0.04</b>	0.060	<b>0.07</b>	-0.03
20850	2510	1RB_Low	Right	Touch	/	23.05	23.9	0.080	<b>0.10</b>	0.154	<b>0.19</b>	0.19
20850	2510	1RB_Low	Right	Tilt	/	23.05	23.9	0.043	<b>0.05</b>	0.082	<b>0.10</b>	0.03
21350	2560	50RB_Mid	Left	Touch	/	21.20	22.9	0.054	<b>0.08</b>	0.108	<b>0.16</b>	0.07
21350	2560	50RB_Mid	Left	Tilt	/	21.20	22.9	0.025	<b>0.04</b>	0.055	<b>0.08</b>	0.12
21350	2560	50RB_Mid	Right	Touch	/	21.20	22.9	0.061	<b>0.09</b>	0.117	<b>0.17</b>	-0.07
21350	2560	50RB_Mid	Right	Tilt	/	21.20	22.9	0.043	<b>0.06</b>	0.083	<b>0.12</b>	0.03

Note1: The LTE mode is QPSK\_20MHz.



**Table 14.1-20: SAR Values (LTE Band7 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
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										
21350	2560	1RB_Mid	Front	/	19.04	19.9	0.175	<b>0.21</b>	0.327	<b>0.40</b>	0.09
21350	2560	1RB_Mid	Rear	/	19.04	19.9	0.225	<b>0.27</b>	0.411	<b>0.50</b>	-0.04
21350	2560	1RB_Mid	Left	/	19.04	19.9	0.112	<b>0.14</b>	0.256	<b>0.31</b>	0.13
21350	2560	1RB_Mid	Bottom	Fig.20	19.04	19.9	0.515	<b>0.63</b>	1.08	<b>1.32</b>	0.11
21100	2535	1RB_Low	Bottom	/	19.03	19.9	0.451	<b>0.55</b>	0.933	<b>1.14</b>	0.09
20850	2510	1RB_High	Bottom	/	18.99	19.9	0.422	<b>0.52</b>	0.866	<b>1.07</b>	-0.03
21100	2535	50RB_High	Front	/	19.14	19.9	0.151	<b>0.18</b>	0.284	<b>0.34</b>	0.08
21100	2535	50RB_High	Rear	/	19.14	19.9	0.179	<b>0.21</b>	0.320	<b>0.38</b>	0.03
21100	2535	50RB_High	Left	/	19.14	19.9	0.076	<b>0.09</b>	0.166	<b>0.20</b>	0.12
21350	2560	50RB_High	Bottom	/	19.12	19.9	0.474	<b>0.57</b>	0.996	<b>1.19</b>	-0.02
21100	2535	50RB_High	Bottom	/	19.14	19.9	0.445	<b>0.53</b>	0.927	<b>1.10</b>	0.06
20850	2510	50RB_High	Bottom	/	19.00	19.9	0.400	<b>0.49</b>	0.831	<b>1.02</b>	0.09
21100	2535	100RB	Bottom	/	19.04	19.9	0.462	<b>0.56</b>	0.970	<b>1.18</b>	0.01
21350	2560	1RB_Mid	Bottom	Headset	19.04	19.9	0.461	<b>0.56</b>	0.87	<b>1.06</b>	0.06

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

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.1-21: SAR Values (LTE Band7 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
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										
20850	2510	1RB_Low	Front	/	23.05	23.9	0.211	<b>0.26</b>	0.381	<b>0.46</b>	0.05
20850	2510	1RB_Low	Rear	Fig.21	23.05	23.9	0.240	<b>0.29</b>	0.422	<b>0.51</b>	0.01
21350	2560	50RB_Mid	Front	/	21.20	22.9	0.154	<b>0.23</b>	0.283	<b>0.42</b>	0.12
21350	2560	50RB_Mid	Rear	/	21.20	22.9	0.183	<b>0.27</b>	0.327	<b>0.48</b>	0.09

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

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.1-22: SAR Values (LTE Band12 - 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											
23060	704	1RB_High	Left	Touch	/	23.02	24	0.086	<b>0.11</b>	0.105	<b>0.13</b>	0.04
23060	704	1RB_High	Left	Tilt	/	23.02	24	0.072	<b>0.09</b>	0.089	<b>0.11</b>	0.03
23060	704	1RB_High	Right	Touch	Fig.22	23.02	24	0.121	<b>0.15</b>	0.152	<b>0.19</b>	0.00
23060	704	1RB_High	Right	Tilt	/	23.02	24	0.088	<b>0.11</b>	0.108	<b>0.14</b>	-0.01
23060	704	25RB_Mid	Left	Touch	/	22.17	23	0.075	<b>0.09</b>	0.092	<b>0.11</b>	0.14
23060	704	25RB_Mid	Left	Tilt	/	22.17	23	0.057	<b>0.07</b>	0.068	<b>0.08</b>	0.19
23060	704	25RB_Mid	Right	Touch	/	22.17	23	0.098	<b>0.12</b>	0.121	<b>0.15</b>	0.02
23060	704	25RB_Mid	Right	Tilt	/	22.17	23	0.068	<b>0.08</b>	0.084	<b>0.10</b>	-0.06

Note1: The LTE mode is QPSK\_10MHz.

**Table 14.1-23: SAR Values (LTE Band12 - 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										
23060	704	1RB_High	Front	/	23.02	24	0.235	<b>0.29</b>	0.333	<b>0.42</b>	0.09
23060	704	1RB_High	Rear	Fig.23	23.02	24	0.272	<b>0.34</b>	0.378	<b>0.47</b>	0.00
23060	704	1RB_High	Left	/	23.02	24	0.100	<b>0.13</b>	0.145	<b>0.18</b>	0.03
23060	704	1RB_High	Right	/	23.02	24	0.163	<b>0.20</b>	0.239	<b>0.30</b>	-0.01
23060	704	1RB_High	Bottom	/	23.02	24	0.097	<b>0.12</b>	0.196	<b>0.25</b>	0.07
23060	704	25RB_Mid	Front	/	22.17	23	0.194	<b>0.23</b>	0.274	<b>0.33</b>	0.12
23060	704	25RB_Mid	Rear	/	22.17	23	0.225	<b>0.27</b>	0.312	<b>0.38</b>	-0.03
23060	704	25RB_Mid	Left	/	22.17	23	0.083	<b>0.10</b>	0.122	<b>0.15</b>	0.07
23060	704	25RB_Mid	Right	/	22.17	23	0.133	<b>0.16</b>	0.195	<b>0.24</b>	-0.03
23060	704	25RB_Mid	Bottom	/	22.17	23	0.078	<b>0.09</b>	0.158	<b>0.19</b>	0.01

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

Note2: The LTE mode is QPSK\_10MHz.

**Table 14.1-24: SAR Values (LTE Band13 - Head)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
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											
23230	782	1RB_Low	Left	Touch	/	23.21	24	0.110	<b>0.13</b>	0.134	<b>0.16</b>	0.08
23230	782	1RB_Low	Left	Tilt	/	23.21	24	0.041	<b>0.05</b>	0.049	<b>0.06</b>	-0.01
23230	782	1RB_Low	Right	Touch	Fig.24	23.21	24	0.155	<b>0.19</b>	0.197	<b>0.24</b>	0.01
23230	782	1RB_Low	Right	Tilt	/	23.21	24	0.095	<b>0.11</b>	0.121	<b>0.15</b>	0.19
23230	782	25RB_Mid	Left	Touch	/	22.18	23	0.086	<b>0.10</b>	0.105	<b>0.13</b>	0.02
23230	782	25RB_Mid	Left	Tilt	/	22.18	23	0.069	<b>0.08</b>	0.087	<b>0.11</b>	-0.07
23230	782	25RB_Mid	Right	Touch	/	22.18	23	0.118	<b>0.14</b>	0.150	<b>0.18</b>	0.01
23230	782	25RB_Mid	Right	Tilt	/	22.18	23	0.075	<b>0.09</b>	0.095	<b>0.11</b>	0.03

Note1: The LTE mode is QPSK\_10MHz.

**Table 14.1-25: SAR Values (LTE Band13 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
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										
23230	782	1RB_Low	Front	/	23.21	24	0.222	<b>0.27</b>	0.368	<b>0.44</b>	0.08
23230	782	1RB_Low	Rear	Fig.25	23.21	24	0.288	<b>0.35</b>	0.400	<b>0.48</b>	0.04
23230	782	1RB_Low	Left	/	23.21	24	0.095	<b>0.11</b>	0.141	<b>0.17</b>	-0.07
23230	782	1RB_Low	Right	/	23.21	24	0.177	<b>0.21</b>	0.257	<b>0.31</b>	0.01
23230	782	1RB_Low	Bottom	/	23.21	24	0.114	<b>0.14</b>	0.246	<b>0.30</b>	0.03
23230	782	25RB_Mid	Front	/	22.18	23	0.176	<b>0.21</b>	0.293	<b>0.35</b>	-0.08
23230	782	25RB_Mid	Rear	/	22.18	23	0.218	<b>0.26</b>	0.302	<b>0.36</b>	0.04
23230	782	25RB_Mid	Left	/	22.18	23	0.071	<b>0.09</b>	0.105	<b>0.13</b>	-0.09
23230	782	25RB_Mid	Right	/	22.18	23	0.136	<b>0.16</b>	0.198	<b>0.24</b>	-0.01
23230	782	25RB_Mid	Bottom	/	22.18	23	0.088	<b>0.11</b>	0.191	<b>0.23</b>	0.18

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

Note2: The LTE mode is QPSK\_10MHz.

**Table 14.1-26: SAR Values (LTE Band14 - Head)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
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											
23330	793	1RB_Mid	Left	Touch	/	23.06	24	0.107	<b>0.13</b>	0.132	<b>0.16</b>	0.09
23330	793	1RB_Mid	Left	Tilt	/	23.06	24	0.087	<b>0.11</b>	0.111	<b>0.14</b>	-0.01
23330	793	1RB_Mid	Right	Touch	Fig.26	23.06	24	0.143	<b>0.18</b>	0.183	<b>0.23</b>	0.07
23330	793	1RB_Mid	Right	Tilt	/	23.06	24	0.087	<b>0.11</b>	0.110	<b>0.14</b>	-0.03
23330	793	25RB_Mid	Left	Touch	/	22.16	23	0.085	<b>0.10</b>	0.104	<b>0.13</b>	0.09
23330	793	25RB_Mid	Left	Tilt	/	22.16	23	0.069	<b>0.08</b>	0.088	<b>0.11</b>	-0.01
23330	793	25RB_Mid	Right	Touch	/	22.16	23	0.114	<b>0.14</b>	0.146	<b>0.18</b>	0.12
23330	793	25RB_Mid	Right	Tilt	/	22.16	23	0.070	<b>0.08</b>	0.088	<b>0.11</b>	0.05

Note1: The LTE mode is QPSK\_10MHz.

**Table 14.1-27: SAR Values (LTE Band14 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
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										
23330	793	1RB_Mid	Front	/	23.06	24	0.221	<b>0.27</b>	0.353	<b>0.44</b>	0.09
23330	793	1RB_Mid	Rear	Fig.27	23.06	24	0.263	<b>0.33</b>	0.370	<b>0.46</b>	0.01
23330	793	1RB_Mid	Left	/	23.06	24	0.074	<b>0.09</b>	0.107	<b>0.13</b>	-0.03
23330	793	1RB_Mid	Right	/	23.06	24	0.173	<b>0.21</b>	0.253	<b>0.31</b>	0.08
23330	793	1RB_Mid	Bottom	/	23.06	24	0.111	<b>0.14</b>	0.240	<b>0.30</b>	0.12
23330	793	25RB_Mid	Front	/	22.16	23	0.176	<b>0.21</b>	0.294	<b>0.36</b>	0.04
23330	793	25RB_Mid	Rear	/	22.16	23	0.210	<b>0.25</b>	0.296	<b>0.36</b>	-0.01
23330	793	25RB_Mid	Left	/	22.16	23	0.060	<b>0.07</b>	0.089	<b>0.11</b>	-0.04
23330	793	25RB_Mid	Right	/	22.16	23	0.137	<b>0.17</b>	0.201	<b>0.24</b>	0.19
23330	793	25RB_Mid	Bottom	/	22.16	23	0.088	<b>0.11</b>	0.190	<b>0.23</b>	0.02

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

Note2: The LTE mode is QPSK\_10MHz.

**Table 14.1-28: SAR Values (LTE Band30 - Head)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C						
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											
27710	2310	1RB_High	Left	Touch	/	23.14	24	0.023	<b>0.03</b>	0.046	<b>0.06</b>	0.04
27710	2310	1RB_High	Left	Tilt	/	23.14	24	0.020	<b>0.02</b>	0.030	<b>0.04</b>	-0.01
27710	2310	1RB_High	Right	Touch	Fig.28	23.14	24	0.046	<b>0.06</b>	0.083	<b>0.10</b>	0.17
27710	2310	1RB_High	Right	Tilt	/	23.14	24	0.023	<b>0.03</b>	0.044	<b>0.05</b>	0.03
27710	2310	25RB_Mid	Left	Touch	/	22.16	23	0.021	<b>0.03</b>	0.040	<b>0.05</b>	-0.01
27710	2310	25RB_Mid	Left	Tilt	/	22.16	23	0.016	<b>0.02</b>	0.026	<b>0.03</b>	0.13
27710	2310	25RB_Mid	Right	Touch	/	22.16	23	0.034	<b>0.04</b>	0.062	<b>0.08</b>	0.07
27710	2310	25RB_Mid	Right	Tilt	/	22.16	23	0.019	<b>0.02</b>	0.036	<b>0.04</b>	0.01

Note1: The LTE mode is QPSK\_10MHz.

**Table 14.1-29: SAR Values (LTE Band30 - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	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										
27710	2310	1RB_High	Front	/	21.31	22	0.219	<b>0.26</b>	0.383	<b>0.45</b>	0.03
27710	2310	1RB_High	Rear	/	21.31	22	0.294	<b>0.34</b>	0.519	<b>0.61</b>	-0.09
27710	2310	1RB_High	Left	/	21.31	22	0.113	<b>0.13</b>	0.234	<b>0.27</b>	0.01
27710	2310	1RB_High	Bottom	/	21.31	22	0.585	<b>0.69</b>	1.13	<b>1.32</b>	0.07
27710	2310	25RB_High	Front	/	21.27	22	0.224	<b>0.27</b>	0.375	<b>0.44</b>	0.06
27710	2310	25RB_High	Rear	/	21.27	22	0.302	<b>0.36</b>	0.523	<b>0.62</b>	0.01
27710	2310	25RB_High	Left	/	21.27	22	0.132	<b>0.16</b>	0.278	<b>0.33</b>	0.19
27710	2310	25RB_High	Bottom	Fig.29	21.27	22	0.603	<b>0.71</b>	1.15	<b>1.36</b>	0.01
27710	2310	50RB	Bottom	/	21.22	22	0.630	<b>0.75</b>	1.04	<b>1.24</b>	0.09
27710	2310	25RB_High	Bottom	Headset	21.27	22	0.503	<b>0.60</b>	0.89	<b>1.06</b>	0.06

Note1: The distance between the EUT and the phantom bottom is 10mm. Note2: The LTE mode is QPSK\_10MHz.

**Table 14.1-30: SAR Values (LTE Band30 - Body)**

Ambient Temperature: 22.9 °C						Liquid Temperature: 22.5 °C					
Frequency		Mode	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										
27710	2310	1RB_High	Front	/	23.14	24	0.137	<b>0.17</b>	0.238	<b>0.29</b>	0.09
27710	2310	1RB_High	Rear	Fig.30	23.14	24	0.187	<b>0.23</b>	0.325	<b>0.40</b>	0.13
27710	2310	25RB_Mid	Front	/	22.16	23	0.102	<b>0.12</b>	0.175	<b>0.21</b>	0.02
27710	2310	25RB_Mid	Rear	/	22.16	23	0.143	<b>0.17</b>	0.249	<b>0.30</b>	0.09

Note1: The distance between the EUT and the phantom bottom is 15mm. Note2: The LTE mode is QPSK\_10MHz.

**Table 14.1-31: SAR Values (LTE Band41 - 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												
40185	2549.5	1RB_Low	Left	Touch	Fig.31	23.09	24	0.055	<b>0.07</b>	0.113	<b>0.14</b>	0.14
40185	2549.5	1RB_Low	Left	Tilt	/	23.09	24	0.035	<b>0.04</b>	0.061	<b>0.08</b>	0.09
40185	2549.5	1RB_Low	Right	Touch	/	23.09	24	0.053	<b>0.07</b>	0.101	<b>0.12</b>	-0.02
40185	2549.5	1RB_Low	Right	Tilt	/	23.09	24	0.036	<b>0.04</b>	0.075	<b>0.09</b>	0.04
39750	2506	50RB_Low	Left	Touch	/	22.13	23	0.047	<b>0.06</b>	0.096	<b>0.12</b>	0.16
39750	2506	50RB_Low	Left	Tilt	/	22.13	23	0.024	<b>0.03</b>	0.042	<b>0.05</b>	0.01
39750	2506	50RB_Low	Right	Touch	/	22.13	23	0.039	<b>0.05</b>	0.076	<b>0.09</b>	0.15
39750	2506	50RB_Low	Right	Tilt	/	22.13	23	0.016	<b>0.02</b>	0.025	<b>0.03</b>	0.02

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.1-32: SAR Values (LTE Band41 - 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											
40185	2549.5	1RB_Low	Front	/	23.09	24	0.163	<b>0.20</b>	0.298	<b>0.37</b>	0.09
40185	2549.5	1RB_Low	Rear	/	23.09	24	0.197	<b>0.24</b>	0.357	<b>0.44</b>	0.03
40185	2549.5	1RB_Low	Left	/	23.09	24	0.083	<b>0.10</b>	0.181	<b>0.22</b>	0.12
41490	2680	1RB_Low	Bottom	/	22.96	24	0.321	<b>0.41</b>	0.699	<b>0.89</b>	0.06
41055	2636.5	1RB_Low	Bottom	/	23.03	24	0.380	<b>0.48</b>	0.840	<b>1.05</b>	-0.01
40620	2593	1RB_Low	Bottom	Fig.32	23.06	24	0.436	<b>0.54</b>	0.929	<b>1.15</b>	0.08
40185	2549.5	1RB_Low	Bottom	/	23.09	24	0.415	<b>0.51</b>	0.861	<b>1.06</b>	0.04
39750	2506	1RB_Low	Bottom	/	23.08	24	0.388	<b>0.48</b>	0.793	<b>0.98</b>	-0.08
39750	2506	50RB_Low	Front	/	22.13	23	0.116	<b>0.14</b>	0.209	<b>0.26</b>	0.01
39750	2506	50RB_Low	Rear	/	22.13	23	0.144	<b>0.18</b>	0.257	<b>0.31</b>	0.04
39750	2506	50RB_Low	Left	/	22.13	23	0.059	<b>0.07</b>	0.128	<b>0.16</b>	0.09
39750	2506	50RB_Low	Bottom	/	22.13	23	0.301	<b>0.37</b>	0.650	<b>0.79</b>	0.13
39750	2506	100RB	Bottom	/	22.03	23	0.307	<b>0.38</b>	0.630	<b>0.79</b>	-0.02

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

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.1-33: SAR Values (LTE band66 - Head)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C						
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											
132322	1745	1RB_Mid	Left	Touch	Fig.33	23.36	24	0.081	<b>0.09</b>	0.133	<b>0.15</b>	0.02
132322	1745	1RB_Mid	Left	Tilt	/	23.36	24	0.042	<b>0.05</b>	0.082	<b>0.10</b>	-0.08
132322	1745	1RB_Mid	Right	Touch	/	23.36	24	0.051	<b>0.06</b>	0.079	<b>0.09</b>	0.01
132322	1745	1RB_Mid	Right	Tilt	/	23.36	24	0.030	<b>0.03</b>	0.046	<b>0.05</b>	-0.04
132322	1745	50RB_Low	Left	Touch	/	22.11	23	0.056	<b>0.07</b>	0.092	<b>0.11</b>	0.08
132322	1745	50RB_Low	Left	Tilt	/	22.11	23	0.035	<b>0.04</b>	0.054	<b>0.07</b>	0.12
132322	1745	50RB_Low	Right	Touch	/	22.11	23	0.037	<b>0.05</b>	0.060	<b>0.07</b>	0.08
132322	1745	50RB_Low	Right	Tilt	/	22.11	23	0.024	<b>0.03</b>	0.035	<b>0.04</b>	0.01

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.1-34: SAR Values (LTE band66 - Body)**

Ambient Temperature: 22.9°C						Liquid Temperature: 22.5°C					
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										
132322	1745	1RB_Mid	Front	/	21.18	22	0.141	<b>0.17</b>	0.228	<b>0.28</b>	0.08
132322	1745	1RB_Mid	Rear	/	21.18	22	0.286	<b>0.35</b>	0.524	<b>0.63</b>	0.02
132322	1745	1RB_Mid	Left	/	21.18	22	0.033	<b>0.04</b>	0.051	<b>0.06</b>	0.04
132322	1745	1RB_Mid	Right	/	21.18	22	0.067	<b>0.08</b>	0.120	<b>0.14</b>	0.11
132322	1745	1RB_Mid	Bottom	/	21.18	22	0.186	<b>0.22</b>	0.415	<b>0.50</b>	0.07
132322	1745	50RB_Low	Front	/	21.03	22	0.105	<b>0.13</b>	0.170	<b>0.21</b>	-0.03
132572	1770	50RB_High	Rear	/	20.87	22	0.377	<b>0.49</b>	0.698	<b>0.91</b>	0.03
132322	1745	50RB_Low	Rear	/	21.03	22	0.380	<b>0.48</b>	0.692	<b>0.87</b>	0.01
132072	1720	50RB_Middle	Rear	Fig.34	21.02	22	0.448	<b>0.56</b>	0.812	<b>1.02</b>	-0.05
132322	1745	50RB_Low	Left	/	21.03	22	0.028	<b>0.04</b>	0.043	<b>0.05</b>	-0.03
132322	1745	50RB_Low	Right	/	21.03	22	0.061	<b>0.08</b>	0.121	<b>0.15</b>	0.06
132322	1745	50RB_Low	Bottom	/	21.03	22	0.365	<b>0.46</b>	0.641	<b>0.80</b>	0.12
132322	1745	100RB	Front	/	21.02	22	0.434	<b>0.54</b>	0.789	<b>0.99</b>	-0.01

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

Note2: The LTE mode is QPSK\_20MHz.