

			Hotspot F	Power			
	LTE-FDD E	Band 2		Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				1909.3MHz	1880MHz	1850.7MHz	
		I III-	QPSK	20.00	20.04	20.14	22
		High	16QAM	20.36	20.31	20.40	22
	400	N 4: al all a	QPSK	20.03	20.03	20.13	22
	1RB	Middle	16QAM	20.35	20.33	20.37	22
		Low	QPSK	20.04	20.05	20.15	22
		Low	16QAM	20.28	20.40	20.39	22
1.4 MHz		Lliab	QPSK	20.14	20.17	20.28	22
		High	16QAM	20.22	20.25	20.34	22
	200	Middle	QPSK	20.09	20.13	20.24	22
	3RB	ivildale	16QAM	20.29	20.28	20.37	22
		Low	QPSK	20.10	20.12	20.24	22
		LOW	16QAM	20.27	20.33	20.36	22
	6RB	/	QPSK	20.10	20.12	20.25	22
	OND	/	16QAM	20.17	20.19	20.28	22
				1908.5MHz	1880MHz	1851.5MHz	/
		High	QPSK	20.20	20.19	20.24	22
		riigii	16QAM	20.43	20.53	20.56	22
	1RB	Middle	QPSK	20.18	20.18	20.26	22
	IND	Middle	16QAM	20.40	20.49	20.50	22
		Low	QPSK	20.19	20.22	20.30	22
		LOW	16QAM	20.44	20.52	20.51	22
3 MHz		High	QPSK	20.18	20.17	20.27	22
		riigii	16QAM	20.24	20.25	20.32	22
	8RB	Middle	QPSK	20.18	20.17	20.26	22
	OI O	IVIIGGIG	16QAM	20.20	20.27	20.32	22
		Low	QPSK	20.18	20.17	20.28	22
		LOW	16QAM	20.24	20.26	20.30	22
	15RB	/	QPSK	20.17	20.17	20.29	22
	ISIND	_ ′	16QAM	20.22	20.22	20.31	22



LTE-FDD Band 2				Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
		•	1	1907.5MHz	1880MHz	1852.5MHz	
		1.12.1	QPSK	20.11	20.14	20.17	22
		High	16QAM	20.42	20.41	20.40	22
	400	N 42 1 11 .	QPSK	20.15	20.21	20.26	22
	1RB	Middle	16QAM	20.38	20.44	20.61	22
5 MHz		Law	QPSK	20.09	20.17	20.28	22
		Low	16QAM	20.41	20.45	20.43	22
		I II ada	QPSK	20.06	20.09	20.23	22
		High	16QAM	20.10	20.14	20.24	22
	4000	N 4: al all a	QPSK	20.10	20.14	20.24	22
	12RB	Middle	16QAM	20.14	20.18	20.24	22
		Low	QPSK	20.07	20.11	20.16	22
			16QAM	20.11	20.14	20.16	22
	25DD	,	QPSK	20.08	20.11	20.20	22
	25RB	/	16QAM	20.09	20.14	20.21	22
				1905MHz	1880MHz	1855MHz	/
		High	QPSK	20.14	20.15	20.19	22
			16QAM	20.35	20.37	20.43	22
	1RB	Middle	QPSK	20.11	20.16	20.21	22
	IKD	ivildale	16QAM	20.35	20.46	20.40	22
		Low	QPSK	20.11	20.21	20.32	22
		LOW	16QAM	20.46	20.46	20.52	22
10 MHz		High	QPSK	20.05	20.11	20.29	22
		riigii	16QAM	20.06	20.14	20.30	22
	25RB	Middle	QPSK	20.07	20.13	20.19	22
	ZJRD	iviidule	16QAM	20.11	20.16	20.19	22
		Low	QPSK	20.11	20.12	20.11	22
		LUW	16QAM	20.13	20.16	20.14	22
	50RB	/	QPSK	20.09	20.12	20.22	22
	JUND	'	16QAM	20.11	20.15	20.22	22



LTE-FDD Band 2				Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				1902.5MHz	1880MHz	1857.5MHz	
		I II ada	QPSK	20.17	20.18	20.24	22
		High	16QAM	20.49	20.44	20.44	22
	455	N 42 1 11 .	QPSK	20.10	20.19	20.24	22
	1RB	Middle	16QAM	20.34	20.44	20.44	22
		1	QPSK	20.21	20.30	20.43	22
		Low	16QAM	20.57	20.60	20.63	22
15 MHz		I II ada	QPSK	20.05	20.13	20.27	22
		High	16QAM	20.07	20.13	20.26	22
	OCDD	M: al all a	QPSK	20.10	20.16	20.21	22
	25RB	Middle	16QAM	20.10	20.16	20.21	22
		Low	QPSK	20.14	20.21	20.18	22
			16QAM	20.14	20.21	20.17	22
	50RB	/	QPSK	20.09	20.16	20.24	22
	JUND	/	16QAM	20.11	20.17	20.24	22
				1900MHz	1880MHz	1860MHz	/
		High	QPSK	20.20	20.18	20.27	22
			16QAM	20.44	20.54	20.50	22
	1RB	Middle	QPSK	20.07	20.14	20.21	22
	IKD	ivildale	16QAM	20.34	20.51	20.45	22
		Low	QPSK	20.28	20.37	20.51	22
		LOW	16QAM	20.62	20.59	20.68	22
20 MHz		High	QPSK	20.04	20.16	20.31	22
		nign	16QAM	20.09	20.17	20.28	22
	50RB	Middle	QPSK	20.08	20.16	20.21	22
	JUND	ivildule	16QAM	20.10	20.15	20.21	22
		Low	QPSK	20.10	20.26	20.09	22
		Low	16QAM	20.13	20.26	20.07	22
	100RB		QPSK	20.09	20.22	20.22	22
	IUUKD	/	16QAM	20.11	20.23	20.21	22



	Full Power										
	LTE-FDD E	Band 4		Actual	output Power	(dBm)					
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up				
		•	1	1754.3MHz	1732.5MHz	1710.7MHz					
		l li ada	QPSK	22.24	22.25	22.17	23.3				
		High	16QAM	21.58	21.56	21.46	22.3				
	400	N 4: al all a	QPSK	22.19	22.23	22.12	23.3				
	1RB	Middle	16QAM	21.50	21.48	21.41	22.3				
		Low	QPSK	22.23	22.25	22.16	23.3				
		Low	16QAM	21.61	21.63	21.49	22.3				
1.4 MHz		Lliab	QPSK	22.40	22.41	22.31	23.3				
		High	16QAM	21.45	21.52	21.39	22.3				
	200	Middle	QPSK	22.35	22.37	22.27	23.3				
	3RB	ivildale	16QAM	21.51	21.56	21.42	22.3				
		Low	QPSK	22.37	22.37	22.28	23.3				
		LOW	16QAM	21.48	21.50	21.42	22.3				
	6RB	/	QPSK	21.37	21.36	21.27	22.3				
	OND	/	16QAM	20.47	20.46	20.36	21.3				
				1753.5MHz	1732.5MHz	1711.5MHz	/				
		High	QPSK	22.37	22.43	22.32	23.3				
		riigii	16QAM	21.68	21.61	21.46	22.3				
	1RB	Middle	QPSK	22.38	22.44	22.32	23.3				
	IND	Middle	16QAM	21.61	21.65	21.56	22.3				
		Low	QPSK	22.44	22.45	22.37	23.3				
		LOW	16QAM	21.62	21.64	21.63	22.3				
3 MHz		High	QPSK	21.39	21.42	21.31	22.3				
		riigii	16QAM	20.47	20.46	20.43	21.3				
	8RB	Middle	QPSK	21.40	21.43	21.32	22.3				
	OI O	IVIIGGIG	16QAM	20.48	20.48	20.42	21.3				
		Low	QPSK	21.43	21.45	21.34	22.3				
		LOW	16QAM	20.49	20.51	20.42	21.3				
	15RB	/	QPSK	21.42	21.43	21.33	22.3				
	1010	,	16QAM	20.48	20.49	20.38	21.3				



	LTE-FDD I	Band 4	Actual	output Power	(dBm)		
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				1752.5MHz	1732.5MHz	1712.5MHz	
		I II ada	QPSK	22.33	22.34	22.27	23.3
		High	16QAM	21.56	21.57	21.47	22.3
	400	N 4: -I -II -	QPSK	22.39	22.44	22.35	23.3
	1RB	Middle	16QAM	21.62	21.72	21.56	22.3
		Lave	QPSK	22.36	22.42	22.34	23.3
		Low	16QAM	21.59	21.62	21.52	22.3
5 MHz		I II ada	QPSK	21.31	21.38	21.28	22.3
		High	16QAM	20.37	20.43	20.31	21.3
	40DD	M: al all a	QPSK	21.37	21.39	21.28	22.3
	12RB	Middle	16QAM	20.42	20.43	20.31	21.3
		Low	QPSK	21.35	21.34	21.22	22.3
		Low	16QAM	20.41	20.39	20.26	21.3
	25RB	/	QPSK	21.34	21.36	21.25	22.3
	ZUND	/	16QAM	20.39	20.40	20.28	21.3
				1750MHz	1732.5MHz	1715MHz	/
		High	QPSK	22.38	22.40	22.31	23.3
			16QAM	21.67	21.67	21.55	22.3
	1RB	Middle	QPSK	22.38	22.40	22.30	23.3
	IKD	ivildale	16QAM	21.66	21.64	21.63	22.3
		Low	QPSK	22.44	22.44	22.39	23.3
		Low	16QAM	21.74	21.67	21.68	22.3
10 MHz		High	QPSK	21.32	21.40	21.29	22.3
		nign	16QAM	20.38	20.45	20.32	21.3
	25RB	Middle	QPSK	21.39	21.39	21.28	22.3
	23KD	ivildale	16QAM	20.43	20.43	20.33	21.3
		Low	QPSK	21.37	21.36	21.23	22.3
		Low	16QAM	20.40	20.42	20.27	21.3
	50RB	,	QPSK	21.36	21.40	21.26	22.3
	JUKD	/	16QAM	20.38	20.42	20.28	21.3



LTE-FDD Band 4				Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
		•	1	1747.5MHz	1732.5MHz	1717.5MHz	
		1.12.1	QPSK	22.38	22.45	22.41	23.3
		High	16QAM	21.68	21.64	21.69	22.3
	400	N 42 1 11 .	QPSK	22.38	22.41	22.30	23.3
	1RB	Middle	16QAM	21.65	21.60	21.60	22.3
		1	QPSK	22.50	22.50	22.42	23.3
		Low	16QAM	21.75	21.73	21.77	22.3
15 MHz		I II ada	QPSK	21.36	21.43	21.35	22.3
		High	16QAM	20.40	20.45	20.37	21.3
	OCDD	N 4: al all a	QPSK	21.39	21.40	21.30	22.3
	25RB	Middle	16QAM	20.42	20.43	20.32	21.3
		Low	QPSK	21.36	21.43	21.30	22.3
			16QAM	20.39	20.45	20.30	21.3
	50RB	,	QPSK	21.35	21.43	21.33	22.3
	JUND	/	16QAM	20.38	20.47	20.34	21.3
				1745MHz	1732.5MHz	1720MHz	/
		High	QPSK	22.45	22.48	22.50	23.3
			16QAM	21.60	21.71	21.72	22.3
	1RB	Middle	QPSK	22.35	22.40	22.30	23.3
	IKD	ivildale	16QAM	21.54	21.70	21.50	22.3
		Low	QPSK	22.59	22.55	22.52	23.3
		LOW	16QAM	21.81	21.76	21.74	22.3
20 MHz		High	QPSK	21.42	21.55	21.42	22.3
		піgп	16QAM	20.45	20.56	20.44	21.3
	50RB	Middle	QPSK	21.40	21.42	21.35	22.3
	JUND	Middle	16QAM	20.42	20.45	20.38	21.3
		Low	QPSK	21.33	21.45	21.31	22.3
		LOW	16QAM	20.35	20.48	20.33	21.3
	100RB		QPSK	21.39	21.50	21.37	22.3
	IUUKD	/	16QAM	20.43	20.54	20.39	21.3



			Hotspot F	Power			
	LTE-FDD E	Band 4		Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				1754.3MHz	1732.5MHz	1710.7MHz	
		I III-	QPSK	21.29	21.31	21.21	23
		High	16QAM	21.68	21.59	21.43	23
	400	Middle	QPSK	21.23	21.25	21.19	23
	1RB	Middle	16QAM	21.47	21.53	21.43	23
		Low	QPSK	21.28	21.28	21.20	23
		Low	16QAM	21.64	21.65	21.43	23
1.4 MHz		Lliab	QPSK	21.43	21.43	21.34	23
		High	16QAM	21.49	21.53	21.44	23
	200	Middle	QPSK	21.39	21.37	21.30	23
	3RB	Middle	16QAM	21.56	21.59	21.44	23
		Low	QPSK	21.40	21.38	21.29	23
		LOW	16QAM	21.52	21.52	21.42	23
	6RB	/	QPSK	21.40	21.39	21.29	23
	OND	/	16QAM	20.50	20.50	20.40	22
				1753.5MHz	1732.5MHz	1711.5MHz	/
		High	QPSK	21.44	21.47	21.31	23
		riigii	16QAM	21.72	21.78	21.56	23
	1RB	Middle	QPSK	21.43	21.47	21.32	23
	IND	Middle	16QAM	21.65	21.75	21.56	23
		Low	QPSK	21.45	21.48	21.33	23
		LOW	16QAM	21.73	21.76	21.68	23
3 MHz		High	QPSK	21.44	21.45	21.33	23
		підп	16QAM	20.53	20.55	20.43	22
	8RB	Middle	QPSK	21.46	21.46	21.34	23
	OND	Mildule	16QAM	20.53	20.55	20.46	22
		Low	QPSK	21.47	21.48	21.34	23
		LUW	16QAM	20.56	20.57	20.44	22
	15DD	,	QPSK	21.45	21.45	21.32	23
	15RB	/	16QAM	20.54	20.52	20.43	22



	LTE-FDD E	Band 4	Actual	output Power	(dBm)		
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				1752.5MHz	1732.5MHz	1712.5MHz	
		l li ada	QPSK	21.35	21.37	21.28	23
		High	16QAM	21.62	21.69	21.54	23
	400	M: al all a	QPSK	21.44	21.46	21.35	23
	1RB	Middle	16QAM	21.73	21.64	21.62	23
		Lave	QPSK	21.43	21.43	21.38	23
		Low	16QAM	21.64	21.72	21.58	23
5 MHz		Lliab	QPSK	21.35	21.41	21.29	23
		High	16QAM	20.42	20.45	20.35	22
	42DD	Middle	QPSK	21.41	21.42	21.30	23
	12RB	ivildale	16QAM	20.47	20.47	20.36	22
		Low	QPSK	21.39	21.38	21.22	23
		Low	16QAM	20.44	20.42	20.27	22
	25RB	/	QPSK	21.37	21.39	21.27	23
	ZUND	/	16QAM	20.42	20.42	20.31	22
				1750MHz	1732.5MHz	1715MHz	/
		High	QPSK	21.41	21.44	21.33	23
			16QAM	21.58	21.67	21.58	23
	1RB	Middle	QPSK	21.43	21.42	21.32	23
	IND	Middle	16QAM	21.68	21.65	21.57	23
		Low	QPSK	21.47	21.47	21.39	23
		LOW	16QAM	21.66	21.71	21.57	23
10 MHz		High	QPSK	21.34	21.41	21.30	23
		riigii	16QAM	20.39	20.47	20.36	22
	25RB	Middle	QPSK	21.41	21.42	21.28	23
	ZJRD	iviidule	16QAM	20.47	20.47	20.34	22
		Low	QPSK	21.38	21.38	21.24	23
		LUW	16QAM	20.43	20.45	20.28	22
	50RB	/	QPSK	21.37	21.41	21.29	23
	JUND	/	16QAM	20.39	20.46	20.31	22



LTE-FDD Band 4				Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
			1	1747.5MHz	1732.5MHz	1717.5MHz	
		I II ada	QPSK	21.45	21.51	21.45	23
		High	16QAM	21.71	21.77	21.69	23
	400	N 4: al all a	QPSK	21.44	21.46	21.35	23
	1RB	Middle	16QAM	21.68	21.63	21.55	23
		Law	QPSK	21.54	21.56	21.50	23
		Low	16QAM	21.84	21.76	21.70	23
15 MHz		Lliada	QPSK	21.39	21.46	21.38	23
		High	16QAM	20.43	20.49	20.38	22
	OCDD	N 4: al all a	QPSK	21.44	21.43	21.33	23
	25RB	Middle	16QAM	20.46	20.46	20.35	22
		Low	QPSK	21.39	21.47	21.32	23
		Low	16QAM	20.42	20.48	20.33	22
	50RB	/	QPSK	21.39	21.47	21.35	23
	30110	/	16QAM	20.43	20.50	20.38	22
				1745MHz	1732.5MHz	1720MHz	/
		High	QPSK	21.52	21.50	21.58	23
			16QAM	21.79	21.76	21.78	23
	1RB	Middle	QPSK	21.43	21.44	21.38	23
	IND	Middle	16QAM	21.67	21.62	21.57	23
		Low	QPSK	21.67	21.59	21.57	23
		LOW	16QAM	21.86	21.78	21.80	23
20 MHz		High	QPSK	21.48	21.58	21.46	23
		riigii	16QAM	20.49	20.58	20.48	22
	50RB	Middle	QPSK	21.45	21.46	21.37	23
	JUND	iviluule	16QAM	20.48	20.47	20.39	22
		Low	QPSK	21.37	21.49	21.34	23
		LOW	16QAM	20.38	20.51	20.37	22
	100RB	/	QPSK	21.43	21.54	21.40	23
	TOURD	'	16QAM	20.46	20.55	20.43	22



			Full Po	wer			
	LTE-FDD I	Band 5		Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				848.3MHz	836.5MHz	824.7MHz	
		Lliab	QPSK	22.22	22.30	22.32	23.3
		High	16QAM	21.52	21.67	21.58	22.3
	400	Middle	QPSK	22.16	22.24	22.24	23.3
	1RB	Middle	16QAM	21.48	21.59	21.60	22.3
		Low	QPSK	22.20	22.26	22.28	23.3
		Low	16QAM	21.61	21.69	21.71	22.3
1.4 MHz		Lliab	QPSK	22.33	22.40	22.42	23.3
		High	16QAM	21.44	21.57	21.57	22.3
	200	Middle	QPSK	22.29	22.37	22.39	23.3
	3RB	ivildale	16QAM	21.52	21.60	21.59	22.3
		Low	QPSK	22.29	22.36	22.38	23.3
		LOW	16QAM	21.50	21.58	21.59	22.3
	6RB	/	QPSK	21.32	21.40	21.42	22.3
	OND	/	16QAM	20.38	20.47	20.47	21.3
				847.5MHz	836.5MHz	825.5MHz	/
		High	QPSK	22.37	22.46	22.48	23.3
		riigii	16QAM	21.58	21.72	21.76	22.3
	1RB	Middle	QPSK	22.37	22.44	22.46	23.3
	IND	Middle	16QAM	21.59	21.81	21.77	22.3
		Low	QPSK	22.39	22.47	22.48	23.3
		LOW	16QAM	21.67	21.69	21.74	22.3
3 MHz		High	QPSK	21.38	21.46	21.49	22.3
		riigii	16QAM	20.37	20.51	20.50	21.3
	8RB	Middle	QPSK	21.39	21.47	21.50	22.3
	OND	IVIIUUIG	16QAM	20.43	20.50	20.51	21.3
		Low	QPSK	21.43	21.49	21.51	22.3
		LOW	16QAM	20.44	20.54	20.51	21.3
	15RB	,	QPSK	21.39	21.47	21.48	22.3
	13170	/	16QAM	20.41	20.50	20.50	21.3



	LTE-FDD E	Band 5	Actual	output Power	(dBm)		
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				846.5MHz	836.5MHz	826.5MHz	
		Lliada	QPSK	22.30	22.38	22.44	23.3
		High	16QAM	21.49	21.64	21.77	22.3
	400	M: al all a	QPSK	22.41	22.46	22.49	23.3
	1RB	Middle	16QAM	21.74	21.72	21.77	22.3
		Law	QPSK	22.36	22.41	22.40	23.3
		Low	16QAM	21.66	21.66	21.69	22.3
5 MHz		Lliada	QPSK	21.32	21.40	21.41	22.3
		High	16QAM	20.33	20.43	20.42	21.3
	40DD	M: al all a	QPSK	21.39	21.43	21.45	22.3
	12RB	Middle	16QAM	20.39	20.45	20.46	21.3
		Low	QPSK	21.36	21.42	21.40	22.3
		Low	16QAM	20.36	20.42	20.41	21.3
	25RB	/	QPSK	21.33	21.40	21.39	22.3
		/	16QAM	20.33	20.41	20.38	21.3
				844MHz	836.5MHz	829MHz	/
		High	QPSK	22.34	22.42	22.48	23.3
			16QAM	21.69	21.67	21.75	22.3
	1RB	Middle	QPSK	22.34	22.41	22.45	23.3
	IKD	Middle	16QAM	21.71	21.72	21.77	22.3
		Low	QPSK	22.44	22.46	22.44	23.3
		Low	16QAM	21.70	21.76	21.73	22.3
10 MHz		∐iah	QPSK	21.30	21.40	21.35	22.3
		High	16QAM	20.31	20.42	20.35	21.3
	2500	Middle	QPSK	21.38	21.43	21.48	22.3
	25RB	Middle	16QAM	20.38	20.44	20.47	21.3
		Low	QPSK	21.42	21.51	21.52	22.3
		Low	16QAM	20.42	20.51	20.52	21.3
	FODD	,	QPSK	21.37	21.47	21.45	22.3
	50RB	/	16QAM	20.34	20.46	20.43	21.3



	Full Power										
	LTE-FDD E	Band 7		Actual	output Power	(dBm)					
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up				
				2567.4MHz	2535MHz	2502.5MHz					
		Lliada	QPSK	22.53	22.24	22.10	23.3				
		High	16QAM	21.74	21.56	21.34	22.3				
	400	N 4: al all a	QPSK	22.53	22.26	22.18	23.3				
	1RB	Middle	16QAM	21.69	21.55	21.41	22.3				
		Low	QPSK	22.47	22.16	22.11	23.3				
		Low	16QAM	21.69	21.46	21.37	22.3				
5 MHz		Lliab	QPSK	21.54	21.29	21.18	22.3				
		High	16QAM	20.60	20.31	20.18	21.3				
	12DD	Middle	QPSK	21.53	21.27	21.19	22.3				
	12RB	ivildale	16QAM	20.61	20.29	20.19	21.3				
		Low	QPSK	21.47	21.21	21.14	22.3				
		LOW	16QAM	20.55	20.20	20.13	21.3				
	25RB	/	QPSK	21.51	21.25	21.17	22.3				
	ZUND	/	16QAM	20.57	20.26	20.15	21.3				
				2565MHz	2535MHz	2505MHz	/				
		High	QPSK	22.58	22.30	22.14	23.3				
		riigii	16QAM	21.85	21.58	21.38	22.3				
	1RB	Middle	QPSK	22.47	22.20	22.10	23.3				
	IND	Middle	16QAM	21.70	21.49	21.37	22.3				
		Low	QPSK	22.41	22.13	22.12	23.3				
		LOW	16QAM	21.64	21.44	21.40	22.3				
10 MHz		High	QPSK	21.52	21.33	21.19	22.3				
		riigii	16QAM	20.57	20.32	20.19	21.3				
	25RB	Middle	QPSK	21.50	21.28	21.16	22.3				
	20110	IVIIGUIG	16QAM	20.56	20.28	20.16	21.3				
		Low	QPSK	21.50	21.24	21.15	22.3				
		LOW	16QAM	20.55	20.25	20.13	21.3				
	50RB	/	QPSK	21.53	21.29	21.19	22.3				
	JUND	/	16QAM	20.57	20.29	20.16	21.3				



	LTE-FDD I	Band 7		Actual	Actual output Power (dBm)		
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
		•		2562.5MHz	2535MHz	2507.5MHz	
		I II ada	QPSK	22.60	22.34	22.15	23.3
		High	16QAM	21.83	21.61	21.34	22.3
	400	N 4: -I -II -	QPSK	22.44	22.21	22.11	23.3
	1RB	Middle	16QAM	21.71	21.48	21.33	22.3
		1	QPSK	22.38	22.19	22.18	23.3
		Low	16QAM	21.65	21.40	21.39	22.3
15 MHz		I II ada	QPSK	21.52	21.35	21.21	22.3
		High	16QAM	20.56	20.33	20.19	21.3
	OCDD	N 4: al all a	QPSK	21.47	21.28	21.16	22.3
	25RB	Middle	16QAM	20.53	20.28	20.13	21.3
		Low	QPSK	21.50	21.27	21.15	22.3
		Low	16QAM	20.54	20.27	20.13	21.3
	FODD	,	QPSK	21.49	21.30	21.19	22.3
	50RB	/	16QAM	20.56	20.31	20.20	21.3
				2560MHz	2535MHz	2510MHz	/
		∐iah	QPSK	22.65	22.42	22.21	22.3 23.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 22.3 22.3 22.3 22.3
		High	16QAM	21.92	21.66	21.48	22.3
	1RB	Middle	QPSK	22.39	22.20	22.04	23.3
	IKD	ivildale	16QAM	21.66	21.57	21.27	22.3
		Low	QPSK	22.35	22.19	22.18	23.3
		Low	16QAM	21.62	21.48	21.36	22.3
20 MHz		High	QPSK	21.49	21.41	21.22	22.3
		піgп	16QAM	20.53	20.42	20.20	21.3
	50RB	Middle	QPSK	21.47	21.30	21.16	22.3
	SURD	ivildale	16QAM	20.50	20.29	20.13	21.3
		Low	QPSK	21.54	21.34	21.14	22.3
		Low	16QAM	20.57	20.34	20.09	21.3
	100RB		QPSK	21.52	21.36	21.17	22.3
	IUUKD	/	16QAM	20.56	20.36	20.15	21.3



			Full Po	wer			
	LTE-FDD B	and 12		Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				715.3MHz	707.5MHz	699.7MHz	
		I III-	QPSK	22.19	22.18	22.20	23.3
		High	16QAM	21.54	21.55	21.49	22.3
	400	Middle	QPSK	22.14	22.13	22.15	23.3
	1RB	Middle	16QAM	21.42	21.39	21.42	22.3
		Low	QPSK	22.15	22.17	22.13	23.3
		Low	16QAM	21.45	21.51	21.40	22.3
1.4 MHz		∐iab	QPSK	22.31	22.31	22.34	23.3
		High	16QAM	21.41	21.47	21.41	22.3
	3RB	Middle	QPSK	22.26	22.26	22.29	23.3
	SKD	Middle	16QAM	21.44	21.45	21.45	22.3
		Low	QPSK	22.27	22.26	22.28	23.3
		LOW	16QAM	21.43	21.43	21.40	22.3
	6RB	/	QPSK	21.33	21.31	21.36	22.3
	OND	/	16QAM	20.38	20.38	20.39	21.3
				714.5MHz	707.5MHz	700.5MHz	/
		High	QPSK	22.36	22.35	22.36	23.3
		riigii	16QAM	21.58	21.60	21.65	22.3
	1RB	Middle	QPSK	22.32	22.34	22.35	23.3
	IND	Middle	16QAM	21.57	21.60	21.62	22.3
		Low	QPSK	22.31	22.35	22.33	23.3
		LOW	16QAM	21.54	21.62	21.58	22.3
3 MHz		High	QPSK	21.39	21.40	21.42	22.3
		riigii	16QAM	20.39	20.43	20.44	21.3
	8RB	Middle	QPSK	21.38	21.39	21.42	22.3
	OI O	IVIIGGIG	16QAM	20.39	20.40	20.42	21.3
		Low	QPSK	21.40	21.39	21.43	22.3
		LOW	16QAM	20.44	20.44	20.44	21.3
	15RB	/	QPSK	21.39	21.40	21.43	22.3
	IJND	/	16QAM	20.40	20.39	20.43	21.3



	LTE-FDD B	and 12		Actual output Power (dBm)			
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
		•		713.5MHz	707.5MHz	701.5MHz	
	1RB 12RB 25RB 25RB	I III-	QPSK	22.32	22.33	22.35	23.3
		High	16QAM	21.54	21.56	21.60	22.3
	400	N 42 1 11 .	QPSK	22.34	22.33	22.35	23.3
	1RB	Middle	16QAM	21.56	21.65	21.66	22.3
		1	QPSK	22.22	22.27	22.25	23.3
		Low	16QAM	21.46	21.49	21.49	22.3
5 MHz		I III-	QPSK	21.30	21.40	21.35	22.3
		High	16QAM	20.29	20.38	20.34	21.3
	4000	N 4: al all a	QPSK	21.35	21.36	21.39	22.3
	12RB	Middle	16QAM	20.35	20.36	20.36	21.3
		Low	QPSK	21.36	21.29	21.34	22.3
		Low	16QAM	20.34	20.30	20.31	21.3
	25DD	,	QPSK	21.33	21.34	21.35	22.3
	ZORB	/	16QAM	20.29	20.31	20.32	21.3
				711MHz	707.5MHz	704MHz	/
		∐iah	QPSK	22.40	22.36	22.37	23.3
		High	16QAM	21.58	21.57	21.66	22.3
	100	Middle	QPSK	22.28	22.33	22.33	23.3
	IKD	ivildale	16QAM	21.53	21.61	21.63	22.3
		Low	QPSK	22.29	22.30	22.28	23.3
		Low	16QAM	21.57	21.52	21.46	22.3
10 MHz		High	QPSK	21.24	21.39	21.45	22.3
		підп	16QAM	20.21	20.38	20.43	21.3
	2500	Middle	QPSK	21.37	21.36	21.39	22.3
	ZUND	ivildale	16QAM	20.33	20.36	20.37	21.3
		Low	QPSK	21.29	21.34	21.43	22.3
		LOW	16QAM	20.26	20.32	20.40	21.3
	50RB	/	QPSK	21.28	21.37	21.44	22.3
	SUKB	'	16QAM	20.25	20.34	20.40	21.3



			Full Po	wer			
	LTE-FDD B	Band 17		Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				713.5MHz	710MHz	706.5MHz	
		I III-	QPSK	22.34	22.32	22.40	Tune up 23.3 22.3 23.3 22.3 22.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 22
		High	16QAM	21.58	21.54	21.65	22.3
	400	Middle	QPSK	22.37	22.39	22.41	23.3
	1RB	Middle	16QAM	21.68	21.66	21.70	22.3 23.3 22.3 22.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 21.3 22.3 23.3 23
		Law	QPSK	22.30	22.33	22.35	23.3
		Low	16QAM	21.54	21.65	21.64	22.3
5 MHz		Lliada	QPSK	21.31	21.36	21.47	22.3
		High	16QAM	20.31	20.37	20.46	21.3
	4000	Middle	QPSK	21.39	21.41	21.41	22.3
	12RB	Middle	16QAM	20.38	20.40	20.41	21.3
		1	QPSK	21.39	21.34	21.37	22.3
		Low	16QAM	20.38	20.34	20.38	21.3
	25DD	,	QPSK	21.36	21.35	21.40	21.3 22.3 21.3
	25RB	/	16QAM	20.35	20.35	20.40	21.3
				711MHz	710MHz	709MHz	/
		Lliab	QPSK	22.40	22.38	22.40	23.3
		High	16QAM	21.70	21.64	21.65	22.3
	400	Middle	QPSK	22.35	22.36	22.37	23.3 22.3 23.3 22.3 22.3 21.3 22.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3 23.3 22.3
	1RB	Ivildale	16QAM	21.62	21.64	21.68	22.3
		Low	QPSK	22.34	22.35	22.34	23.3
		Low	16QAM	21.64	21.69	21.61	22.3
10 MHz		Lliada	QPSK	21.26	21.28	21.33	22.3
		High	16QAM	20.27	20.27	20.32	21.3
	0EDD	Middle	QPSK	21.40	21.40	21.40	22.3
	25RB	Middle	16QAM	20.38	20.39	20.39	21.3
		Low	QPSK	21.33	21.31	21.30	22.3
		Low	16QAM	20.32	20.31	20.31	21.3
	EODD	,	QPSK	21.31	21.30	21.34	22.3
	50RB	/	16QAM	20.27	20.28	20.31	21.3



Full Power									
	LTE-FDD B	Band 38		Actual	output Power	(dBm)			
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up		
			1	2617.5MHz	2595MHz	2572.5MHz			
		1.12.1	QPSK	22.10	22.24	22.40	23.3		
		High	16QAM	21.04	21.16	21.35	22.3		
	400	NA: -I -II -	QPSK	22.10	22.30	22.46	23.3		
	1RB	Middle	16QAM	21.07	21.22	21.41	22.3		
		Law	QPSK	22.07	22.30	22.46	23.3		
		Low	16QAM	21.02	21.22	21.42	22.3		
5 MHz		Lliab	QPSK	21.08	21.23	21.39	22.3		
		High	16QAM	20.17	20.32	20.48	21.3		
	42DD	Middle	QPSK	21.09	21.26	21.44	22.3		
	12RB	Middle	16QAM	20.17	20.32	20.51	21.3		
		Low	QPSK	21.02	21.20	21.41	22.3		
		LOW	16QAM	20.10	20.28	20.49	21.3		
	25RB	/	QPSK	21.04	21.21	21.39	22.3		
	23KD	/	16QAM	20.07	20.24	20.42	21.3		
				2615MHz	2595MHz	2575MHz	/		
		High	QPSK	22.09	22.21	22.39	23.3		
		підп	16QAM	21.07	21.18	21.38	22.3		
	1RB	Middle	QPSK	22.07	22.26	22.36	23.3		
	IND	Middle	16QAM	21.03	21.19	21.34	22.3		
		Low	QPSK	22.06	22.29	22.44	23.3		
		LOW	16QAM	21.01	21.22	21.41	22.3		
10 MHz		High	QPSK	21.07	21.25	21.38	22.3		
		riigii	16QAM	20.13	20.27	20.41	21.3		
	25RB	Middle	QPSK	21.05	21.26	21.39	22.3		
	23110	Mildule	16QAM	20.09	20.29	20.42	21.3		
		Low	QPSK	21.00	21.24	21.44	22.3		
		LUW	16QAM	20.05	20.26	20.46	21.3		
	50RB	,	QPSK	21.05	21.22	21.38	22.3		
	JUND	/	16QAM	20.03	20.21	20.38	21.3		



	LTE-FDD B	and 38		Actual	output Power	(dBm)	
Band-width	RB allocation	RB offset	Modulation	High	Middle	Low	Tune up
				2612.5MHz	2595MHz	2577.5MHz	
		Lliada	QPSK	22.12	22.23	22.39	23.3
		High	16QAM	21.08	21.16	21.33	22.3
	400	N 4: al all a	QPSK	22.05	22.26	22.37	23.3
	1RB	Middle	16QAM	21.00	21.18	21.34	22.3
		Low	QPSK	22.11	22.36	22.51	23.3
		Low	16QAM	21.07	21.29	21.47	22.3
15 MHz		Lliab	QPSK	21.07	21.24	21.37	22.3
		High	16QAM	20.07	20.24	20.36	21.3
	0EDD	Middle	QPSK	21.06	21.25	21.40	22.3
	25RB	Middle	16QAM	20.06	20.24	20.37	21.3
		Low	QPSK	21.03	21.27	21.43	22.3
		LOW	16QAM	20.01	20.26	20.42	21.3
	50RB	/	QPSK	21.05	21.27	21.39	22.3
	SURD	/	16QAM	20.02	20.23	20.37	21.3
				2610MHz	2595MHz	2580MHz	/
	JUND	High	QPSK	22.13	22.23	22.39	23.3
		підп	16QAM	21.11	21.19	21.32	22.3
	1RB	Middle	QPSK	22.02	22.22	22.34	23.3
	IND	Middle	16QAM	20.98	21.15	21.29	22.3
		Low	QPSK	22.18	22.39	22.56	23.3
		LOW	16QAM	21.12	21.32	21.48	22.3
20 MHz		High	QPSK	21.13	21.31	21.35	22.3
		riigii	16QAM	20.13	20.29	20.33	21.3
	50RB	Middle	QPSK	21.06	21.23	21.36	22.3
	JUND	iviluule	16QAM	20.05	20.22	20.34	21.3
		Low	QPSK	21.03	21.30	21.48	22.3
		LUW	16QAM	20.02	20.28	20.46	21.3
	100RB	/	QPSK	21.09	21.30	21.43	22.3
_	IUUKD	/	16QAM	20.08	20.32	20.43	21.3



11.4 Wi-Fi and BT Measurement result

Table 11.5: The conducted Power measurement results for BT

ВТ	Tungun	Averaged Power (dBm)					
Mode	Tune up	Ch.0 (2402 MHz)	Ch39 (2441 MHz)	Ch78 (2480 MHz)			
GFSK	5	3.39	4.57	3.30			
EDR2M-4_DQPSK	3.5	2.20	3.23	1.86			
EDR3M-8DPSK	3.5	2.28	3.35	1.95			
BLE	Tune up	Ch0 (2402MHz)	Ch19 (2440MHz)	Ch39 (2480MHz)			
DLE	0.5	-2.04	-1.05	-2.10			

Table 11.6: The conducted Power measurement results for 2.4G WIFI

WiFi 2.4GHz	Tuno un	Averaged Power (dBm)				
Mode	Tune up	Ch.1(2412 MHz)	Ch.6(2437Mhz)	Ch.11(2462MHz)		
802.11b	16	15.02	15.55	15.33		
802.11g	15.5	14.75	15.03	14.67		
802.11n(20MHz)	16	14.93	14.96	14.69		



Table 11.7: The conducted Power for 5G WIFI

		Averaç	ged Power (dBm)		
	Mode	802.11a	802.11n-20MHz	Mode	802.11n-40MHz
T	une up	14	14	1	14
Cha	nnel (MHz)	6Mbps	MCS0	Channel	MCS0
	36(5180MHz)	13.41	13.66	38(5190MHz)	13.63
U-NII-1	40(5200MHz)	13.45	13.58	46(5230MHz)	13.72
O-IVII-1	44(5220MHz)	13.49	13.61		I
	48(5240MHz)	13.53	13.41	,	
U-NII-2A	52(5260MHz)	13.50	13.47	54(5270MHz)	13.45
	56(5280MHz)	13.38	13.30	62(5310MHz)	13.44
	60(5300MHz)	13.37	13.34		
	64(5320MHz)	13.45	13.16		/
	100(5500MHz)	13.49	13.13	102(5510MHz)	13.42
	104(5520MHz)	13.37	12.94	110(5550MHz)	13.45
	108(5540MHz)	13.31	12.58	118(5590MHz)	12.92
	112(5560MHz)	13.15	12.35	126(5630MHz)	12.56
	116(5580MHz)	13.39	12.91	134(5670MHz)	12.67
U-NII-2C	120(5600MHz)	13.25	12.60		
	124(5620MHz)	13.18	12.67		
	128(5640MHz)	12.98	12.47		/
	132(5660MHz)	13.25	12.60		1
	136(5680MHz)	13.30	12.73		
	140(5700MHz)	13.35	12.48		
	149(5745MHz)	13.41	12.62	151(5755 MHz)	12.40
	153(5765MHz)	13.38	12.53	159(5795 MHz)	12.40
U-NII-3	157(5785MHz)	13.31	12.45		
	161(5805MHz)	13.23	12.43		/
	165(5825MHz)	13.28	12.48		

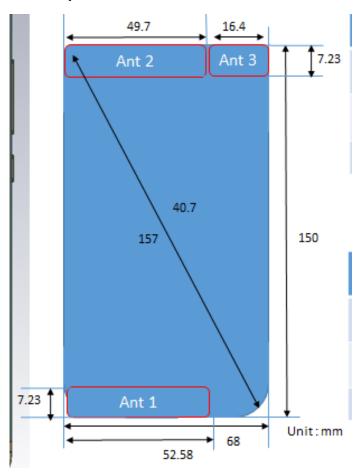


12 Simultaneous TX SAR Considerations

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 (Front View)

0.0	Antenn a	Mode	Bands
44.6	Ant 1	Primary LB/MB/HB	All Cellular
×	Ant 2	Diversity LB/MB/HB	W(1,2,4,5,8), LTE(1,2,3,4,5,7,8,12,17,28,38,40)
	Ant 3	BT/WIFI/GPS	BT/WIFI2.4G & 5G/GPS



12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, 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							
Main antenna	Yes	Yes	Yes	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:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \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		utput wer	SAR test
			threshold (mW)	dBm	mW	exclusion
Bluetooth	2.441	Head	9.60	5	3.16	Yes
Didelootii	2.441	Body	19.20	5	3.16	Yes Yes No
2.4GHz WLAN	2.45	Head	9.58	16	39.81	No
	2.43	Body	19.17	16	39.81	No
	5.2	Head	6.58	14	25.12	No
	5.2	Body	13.16	14	25.12	No
	5.3	Head	6.52	14	25.12	No
5011- W. AN	5.3	Body	13.03	14	25.12	No
5GHz WLAN	5.6	Head	6.34	14	25.12	No
	5.6	Body	12.68	14	25.12	No
	5.8	Head	6.23	14	25.12	No
	5.8	Body	12.46	14	25.12	No



13 Evaluation of Simultaneous

Table 13.1: The sum of reported SAR values for main antenna and Wi-Fi

1	Position	Main antenna	Wi-Fi	Sum
Highest reported SAR value for Head	Left Touch	0.26	1.10	1.36
Highest reported SAR value for Hotspot	Bottom	1.36	/	1.36
Highest reported SAR value for Body-worn	Rear	1.08	0.08	1.16

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

1	Position	Main antenna	BT*	Sum
Highest reported SAR value for Head	Right Touch	0.35	0.13	0.48
Highest reported SAR value for Hotspot	Bottom	1.36	/	1.36
Highest reported SAR value for Body-worn	Rear	1.08	0.04	1.12

BT* - Estimated SAR for Bluetooth (see the table 13.3)

Table 13.3: Estimated SAR for Bluetooth

Position	f (GHz)	Distance (mm)	Upper limi	t of power *	Estimated _{1g}
Position	i (GHZ)	Distance (mm)	dBm	mW	(W/kg)
Head	2.441	5	5	5.01	0.13
Body	2.441	10	5	5.01	0.07
Body	2.441	15	5	5.01	0.04

^{* -} 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)]·[$\sqrt{f(GHz)/x}$] 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 < 1.6W/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 10mm 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-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or >1.2W/kg. The calculated SAR is obtained by the following formula:

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

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 GSM850/1900	1:8.3
GPRS for GSM850	1:2
GPRS for GSM1900	1:8.3
GPRS for GSM1900 (Hotspot)	1:4
WCDMA850/1700/1900	1:1
FDD_LTE Band 2/4/5/7/12/17	1:1
TDD_LTE Band 38	1:1.58



14.1 SAR results

Table 14.2: SAR Values (GSM 850 - Head)

		Aml	bient Temperati	ıre: 22.5°	°C Liqu	id Tempera	ature: 22.0°C	,	
Freque MHz	ency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
836.6	190	Speech	Left Touch	/	32.39	33.5	0.083	0.11	0.04
836.6	190	Speech	Left Tilt	/	32.39	33.5	0.060	80.0	0.08
836.6	190	Speech	Right Touch	Fig.1	32.39	33.5	0.092	0.12	-0.01
836.6	190	Speech	Right Tilt	/	32.39	33.5	0.055	0.07	0.05
	32G								
836.6	190	Speech	Right Touch	/	32.39	33.5	0.085	0.11	0.06

Table 14.3: SAR Values (GSM 850 -Body)

	Table 14.0. CAN Values (Com 600 Body)												
		Am	bient Temper	ature: 22.5	5°C Liqı	uid Tempe	rature: 22.0°	С					
Freque MHz	ency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)				
	Hotspot Test Data (10mm)												
836.6	190	GPRS	Front	/	27.04	27.5	0.170	0.19	0.09				
836.6	190	GPRS	Rear	/	27.04	27.5	0.103	0.11	0.04				
836.6	190	GPRS	Left	/	27.04	27.5	0.064	0.07	-0.08				
836.6	190	GPRS	Right	/	27.04	27.5	0.115	0.13	-0.04				
836.6	190	GPRS	Bottom	/	27.04	27.5	0.066	0.07	0.06				
836.6	190	EGPRS	Front	/	27.04	27.5	0.149	0.17	0.14				
			H	otspot Tes	st Data (10m	m) + 32G							
836.6	190	GPRS	Front	Fig.2	27.04	27.5	0.204	0.23	0.07				
	Body Worn Test Data (15mm)												
836.6	190	GPRS	Front	/	27.04	27.5	0.127	0.14	0.02				
836.6	190	GPRS	Rear	/	27.04	27.5	0.091	0.10	0.08				



Table 14.4: SAR Values (GSM 1900 - Head)

		Amb	oient Temperat	ure: 22.7	°C Liqu	ıid Tempei	rature: 22.2°	С	
Freque MHz	ency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
1880	661	Speech	Left Touch	Fig.3	30.06	31.5	0.124	0.17	0.06
1880	661	Speech	Left Tilt	/	30.06	31.5	0.057	0.08	0.06
1880	661	Speech	Right Touch	/	30.06	31.5	0.068	0.09	0.04
1880	661	Speech	Right Tilt	/	30.06	31.5	0.056	0.08	0.02
	32G								
1880	661	Speech	Left Touch	/	30.06	31.5	0.121	0.17	0.01

Table 14.5: SAR Values (GSM 1900 - Body)

	Table 14.5: SAR values (GSW 1900 - Body)												
		Amb	oient Tempera	ture: 22.4°	C Liqui	d Tempera	ture: 22.0°C						
Freque MHz	ency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)				
				Hotspot 1	Test Data (10	mm)							
1880	661	GPRS	Front	/	23.69	24	0.787	0.85	0.13				
1880	661	GPRS	Rear	/	23.69	24	0.181	0.19	0.05				
1880	661	GPRS	Left	/	23.69	24	0.095	0.10	0.03				
1880	661	GPRS	Right	/	23.69	24	0.105	0.11	0.04				
1880	661	GPRS	Bottom	/	23.69	24	0.991	1.06	0.11				
1909.8	810	GPRS	Front	/	23.84	24	0.664	0.69	0.16				
1850.2	512	GPRS	Front	/	23.52	24	0.993	1.11	0.08				
1909.8	810	GPRS	Bottom	/	23.84	24	0.829	0.86	0.02				
1850.2	512	GPRS	Bottom	Fig.4	23.52	24	1.200	1.34	0.09				
1850.2	512	EGPRS	Bottom	/	23.52	24	1.160	1.30	0.07				
			Но	tspot Test	Data (10mm) + 32G							
1850.2	512	GPRS	Bottom	/	23.52	24	1.180	1.32	0.01				
			В	ody Worn	Test Data (1	5mm)							
1880	661	GPRS	Front		30.19	31.5	0.650	0.88	0.05				
1880	661	GPRS	Rear	/	30.19	31.5	0.163	0.22	0.11				
1909.8	810	GPRS	Front	/	30.05	31.5	0.510	0.71	0.01				
1850.2	512	GPRS	Front	/	30.32	31.5	0.821	1.08	0.05				



Table 14.6: SAR Values (WCDMA 850 - Head)

	Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C												
Frequency		Test	Test	Figure	Conducted	Max.	Measured	Reported	Power				
MHz	Ch.	Mode	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)				
836.4	4182	RMC	Left Touch	/	24.1	24.5	0.211	0.23	0.03				
836.4	4182	RMC	Left Tilt	/	24.1	24.5	0.122	0.13	0.05				
836.4	4182	RMC	Right Touch	Fig.5	24.1	24.5	0.220	0.24	0.09				
836.4	4182	RMC	Right Tilt	/	24.1	24.5	0.136	0.15	0.07				

Table 14.7: SAR Values (WCDMA 850 -Body)

			Table 14	./: SAR	values (WCL	IVIA 65U -	boay)				
		Am	bient Temper	ature: 22.8	3°C Liqu	uid Tempe	rature: 22.2°	С			
Frequency MHz Ch.		Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)		
	Hotspot Test Data (10mm)										
836.4	4182	RMC	Front	Fig.6	24.1	24.5	0.512	0.56	-0.03		
836.4	4182	RMC	Rear	/	24.1	24.5	0.303	0.33	0.00		
836.4	4182	RMC	Left	/	24.1	24.5	0.154	0.17	-0.12		
836.4	4182	RMC	Right	/	24.1	24.5	0.203	0.22	-0.01		
836.4	4182	RMC	Bottom	/	24.1	24.5	0.175	0.19	0.01		
	Body Worn Test Data (15mm)										
836.4	4182	RMC	Front	/	24.1	24.5	0.352	0.39	0.00		
836.4	4182	RMC	Rear	/	24.1	24.5	0.255	0.28	-0.01		



Table 14.8: SAR Values (WCDMA1900 - Head)

	Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C												
Frequ	uency	Test	Test	Figure	Conducted	Max. tune-up	Measured	Reported	Power				
MHz	Ch.	Mode	Position	No.	Power (dBm)	Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)				
1880	9400	RMC	Left Touch	Fig.7	23.5	24.5	0.097	0.12	0.02				
1880	9400	RMC	Left Tilt	/	23.5	24.5	0.045	0.06	0.03				
1880	9400	RMC	Right Touch	/	23.5	24.5	0.053	0.07	-0.07				
1880	9400	RMC	Right Tilt	/	23.5	24.5	0.053	0.07	0.04				

Table 14.9: SAR Values (WCDMA1900 - Body)

			14510 14.0	o. OAK tu	ides (Wobin	A1000 DC	, ay,				
		An	nbient Tempera	ature: 22.4°	C Liquid	d Temperati	ure: 22.0°C				
Frequency		ency Test Test		Figure	Conducted	Max.	Measured	Reported	Power		
MHz	Ch.	Mode	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)		
	Hotspot Test Data (10mm)										
1880	9400	RMC	Front	/	19.6	21	0.397	0.55	0.01		
1880	9400	RMC	Rear	/	19.6	21	0.090	0.12	0.04		
1880	9400	RMC	Left	/	19.6	21	0.033	0.05	0.03		
1880	9400	RMC	Right	/	19.6	21	0.054	0.07	0.01		
1880	9400	RMC	Bottom	/	19.6	21	0.424	0.59	0.06		
	Body Worn Test Data (15mm)										
1880	9400	RMC	Front	Fig.8	23.5	24.5	0.616	0.78	0.03		
1880	9400	RMC	Rear	/	23.5	24.5	0.135	0.17	0.02		



Table 14.10: SAR Values (WCDMA 1700 - Head)

	Ambient Temperature: 22.9°C Liquid Temperature: 22.4°C											
Freque	ency	Test	Test	Figure	Conducted	Max.	Measured	Reported	Power			
MHz	Ch.	Mode	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)			
1732.6	1413	RMC	Left Touch	Fig.9	23.6	24.5	0.128	0.16	-0.01			
1732.6	1413	RMC	Left Tilt	/	23.6	24.5	0.045	0.06	-0.03			
1732.6	1413	RMC	Right Touch	/	23.6	24.5	0.085	0.10	0.02			
1732.6	1413	RMC	Right Tilt	/	23.6	24.5	0.072	0.09	-0.03			

Table 14.11: SAR Values (WCDMA 1700 - Body)

	Table 14.11. SAN Values (WCDMA 1700 - Body)										
		Aml	oient Temperat	ture: 22.6°C	Liquid	Temperat	ure: 22.1°C				
Freque MHz	ency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)		
				Hotspot Te	est Data (10m						
1732.6	1413	RMC	Front	/	21.6	23	0.633	0.87	0.17		
1732.6	1413	RMC	Rear	/	21.6	23	0.132	0.18	0.01		
1732.6	1413	RMC	Left	/	21.6	23	0.069	0.10	0.04		
1732.6	1413	RMC	Right	/	21.6	23	0.034	0.05	0.02		
1732.6	1413	RMC	Bottom	/	21.6	23	0.667	0.92	0.01		
1752.6	1513	RMC	Bottom	Fig.10	21.7	23	0.837	1.13	0.03		
1712.4	1312	RMC	Bottom	/	21.4	23	0.632	0.91	0.03		
1752.6	1513	RMC	Bottom	/	21.7	23	0.752	1.01	0.11		
1712.4	1312	RMC	Bottom	/	21.4	23	0.573	0.83	0.06		
			В	ody Worn	Test Data (15	imm)					
/	1413	RMC	Front	/	23.6	24.5	0.632	0.78	0.09		
1732.6	1413	RMC	Rear	/	23.6	24.5	0.127	0.16	0.09		



Table 14.12: SAR Values (LTE Band 2 - Head)

	Ambient Temperature: 22.7°C Liquid Temperature: 22.2°C											
Freq MHz	uency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)			
1880	18900	1RB_Low	Left Touch	Fig.11	22.38	23.3	0.146	0.18	0.04			
1880	18900	50RB_Low	Left Touch	/	21.31	22.3	0.088	0.11	0.06			
1880	18900	1RB_Low	Left Tilt	/	22.38	23.3	0.036	0.04	0.02			
1880	18900	50RB_Low	Left Tilt	/	21.31	22.3	0.026	0.03	0.03			
1880	18900	1RB_Low	Right Touch	/	22.38	23.3	0.061	0.08	0.04			
1880	18900	50RB_Low	Right Touch	/	21.31	22.3	0.041	0.05	0.03			
1880	18900	1RB_Low	Right Tilt	/	22.38	23.3	0.059	0.07	0.02			
1880	18900	50RB_Low	Right Tilt	/	21.31	22.3	0.040	0.05	0.02			

Table 14.13: SAR Values (LTE Band 2 - Body)

	Ambient Temperature: 22.4°C Liquid Temperature: 22.0°C											
Freq MHz	uency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)			
			H	lotspot Tes	st Data (10mi	m)	1	1				
1880	18900	1RB_Low	Front	/	20.37	22	0.741	1.08	-0.08			
1880	18900	50RB_Low	Front	/	20.26	22	0.626	0.93	-0.01			
1880	18900	1RB_Low	Rear	/	20.37	22	0.151	0.22	0.02			
1880	18900	50RB_Low	Rear	/	20.26	22	0.140	0.21	0.06			
1880	18900	1RB_Low	Left	/	20.37	22	0.072	0.10	0.08			
1880	18900	50RB_Low	Left	/	20.26	22	0.053	0.08	-0.09			
1880	18900	1RB_Low	Right	/	20.37	22	0.050	0.07	0.00			
1880	18900	50RB_Low	Right	/	20.26	22	0.043	0.06	0.09			
1880	18900	1RB_Low	Bottom	/	20.37	22	0.784	1.14	-0.06			
1880	18900	50RB_Low	Bottom	/	20.26	22	0.741	1.11	0.03			
1900	19100	1RB_Low	Front	/	20.28	22	0.715	1.06	-0.06			
1860	18700	1RB_Low	Front	/	20.51	22	0.552	0.78	-0.07			
1880	18900	100RB	Front	/	20.22	22	0.648	0.98	0.07			
1900	19100	1RB_Low	Bottom	Fig.12	20.28	22	0.885	1.32	-0.05			
1860	18700	1RB_Low	Bottom	/	20.51	22	0.626	0.88	-0.02			
1900	19100	50RB_Low	Bottom	/	20.10	22	0.832	1.29	-0.05			
1860	18700	50RB_High	Bottom	/	20.31	22	0.626	0.92	-0.02			
1880	18900	100RB	Bottom	/	20.22	22	0.790	1.19	-0.09			
Body Worn Test Data (15mm)												
1880	18900	1RB_Low	Front	/	22.38	23.3	0.641	0.79	0.03			
1880	18900	50RB_Low	Front	/	21.31	22.3	0.456	0.57	-0.02			
1880	18900	1RB_Low	Rear	/	22.38	23.3	0.155	0.19	0.08			
1880	18900	50RB_Low	Rear	/	21.31	22.3	0.122	0.15	0.04			



Table 14.14: SAR Values (LTE Band 4 - Head)

		Ambie	nt Temperature	: 22.9°C	Liquid 7	Temperatui	e: 22.4°C		
Frequ MHz	Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)
1732.5	20175	1RB_Low	Left Touch	Fig.13	22.55	23.3	0.128	0.15	0.05
1732.5	20175	50RB_High	Left Touch	/	21.55	22.3	0.087	0.10	-0.06
1732.5	20175	1RB_Low	Left Tilt	/	22.55	23.3	0.038	0.05	-0.03
1732.5	20175	50RB_High	Left Tilt	/	21.55	22.3	0.027	0.03	-0.03
1732.5	20175	1RB_Low	Right Touch	/	22.55	23.3	0.065	80.0	0.08
1732.5	20175	50RB_High	Right Touch	/	21.55	22.3	0.043	0.05	0.06
1732.5	20175	1RB_Low	Right Tilt	/	22.55	23.3	0.055	0.07	-0.07
1732.5	20175	50RB_High	Right Tilt	/	21.55	22.3	0.038	0.05	-0.08

Table 14.15: SAR Values (LTE Band 4 - Body)

	Table 14.15: SAR Values (LTE Band 4 - Body)										
		Ambier	it Temperatu	re: 22.6°C	Liquid ⁻	Temperatu	re: 22.1°C				
Frequ MHz	Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)		
			Н	otspot Tes	st Data (10mi	n)					
1732.5	20175	1RB_Low	Front	/	21.59	23	0.849	1.17	0.08		
1732.5	20175	50RB_High	Front	/	21.58	23	0.682	0.95	0.01		
1732.5	20175	1RB_Low	Rear	/	21.59	23	0.186	0.26	0.06		
1732.5	20175	50RB_High	Rear	/	21.58	23	0.172	0.24	-0.03		
1732.5	20175	1RB_Low	Left	/	21.59	23	0.117	0.16	0.07		
1732.5	20175	50RB_High	Left	/	21.58	23	0.087	0.12	-0.08		
1732.5	20175	1RB_Low	Right	/	21.59	23	0.024	0.03	-0.09		
1732.5	20175	50RB_High	Right	/	21.58	23	0.023	0.03	0.05		
1732.5	20175	1RB_Low	Bottom	/	21.59	23	0.953	1.32	0.03		
1732.5	20175	50RB_High	Bottom	/	21.58	23	0.825	1.14	0.06		
1745	20300	1RB_Low	Front	/	21.67	23	0.869	1.18	-0.02		
1720	20050	1RB_Low	Front	/	21.57	23	0.846	1.18	0.20		
1732.5	20175	100RB	Front	/	21.54	23	0.707	0.99	0.01		
1745	20300	1RB_Low	Bottom	Fig.14	21.67	23	1.000	1.36	0.01		
1720	20050	1RB_Low	Bottom	/	21.57	23	0.865	1.20	-0.03		
1745	20300	50RB_High	Bottom	/	21.48	23	0.960	1.36	0.06		
1720	20050	50RB_High	Bottom	/	21.46	23	0.917	1.31	-0.08		
1732.5	20175	100RB	Bottom	/	21.54	23	0.959	1.34	-0.02		
			Во	dy Worn T	est Data (15r	nm)					
1732.5	20175	1RB_Low	Front	/	22.55	23.3	0.600	0.71	0.09		
1732.5	20175	50RB_High	Front	/	21.55	22.3	0.488	0.58	0.01		
1732.5	20175	1RB_Low	Rear	/	22.55	23.3	0.157	0.19	0.01		
1732.5	20175	50RB_High	Rear	/	21.55	22.3	0.128	0.15	0.07		



Table 14.16: SAR Values (LTE Band 5 - Head)

		Ambi	ent Temperatur	e: 22.5°C	Liquid	Temperatu	re: 22.0°C		
Freq	uency		Test	Figure	Conducted	Max. tune-up	Measured	Reported	Power
MHz	Ch.	Test Mode	Position	No.	Power (dBm)	Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)
836.5	20525	1RB_Low	Left Touch	/	22.46	23.3	0.211	0.26	-0.10
836.5	20525	25RB_Low	Left Touch	/	21.51	22.3	0.193	0.23	0.06
836.5	20525	1RB_Low	Left Tilt	/	22.46	23.3	0.201	0.24	0.00
836.5	20525	25RB_Low	Left Tilt	/	21.51	22.3	0.184	0.22	0.01
836.5	20525	1RB_Low	Right Touch	Fig.15	22.46	23.3	0.290	0.35	0.06
836.5	20525	25RB_Low	Right Touch	/	21.51	22.3	0.231	0.28	0.09
836.5	20525	1RB_Low	Right Tilt	/	22.46	23.3	0.118	0.14	0.09
836.5	20525	25RB_Low	Right Tilt	/	21.51	22.3	0.095	0.11	0.16

Table 14.17: SAR Values (LTE Band 5 - Body)

	Table 14.17. SAN Values (LTE Ballu 3 - Body)										
		Ambi	ent Temperatu	ıre: 22.8°C	Liquid T	emperatui	e: 22.2°C				
Frequ MHz	uency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)		
			H	lotspot Tes	t Data (10mn	n)					
836.5	20525	1RB_Low	Front	Fig.16	22.46	23.3	0.452	0.55	0.04		
836.5	20525	25RB_Low	Front	/	21.51	22.3	0.345	0.41	0.05		
836.5	20525	1RB_Low	Rear	/	22.46	23.3	0.312	0.38	0.01		
836.5	20525	25RB_Low	Rear	/	21.51	22.3	0.240	0.29	0.04		
836.5	20525	1RB_Low	Left	/	22.46	23.3	0.170	0.21	0.01		
836.5	20525	25RB_Low	Left	/	21.51	22.3	0.123	0.15	-0.03		
836.5	20525	1RB_Low	Right	/	22.46	23.3	0.324	0.39	-0.07		
836.5	20525	25RB_Low	Right	/	21.51	22.3	0.247	0.30	-0.01		
836.5	20525	1RB_Low	Bottom	/	22.46	23.3	0.174	0.21	0.05		
836.5	20525	25RB_High	Bottom	1	21.51	22.3	0.141	0.17	-0.07		
			Во	dy Worn Te	est Data (15m	nm)					
836.5	20525	1RB_Low	Front	/	22.46	23.3	0.322	0.39	0.01		
836.5	20525	25RB_Low	Front	/	21.51	22.3	0.247	0.30	0.05		
836.5	20525	1RB_Low	Rear	/	22.46	23.3	0.269	0.33	-0.01		
836.5	20525	25RB_Low	Rear	/	21.51	22.3	0.204	0.24	0.02		



Table 14.18: SAR Values (LTE Band 7 - Head)

		Amb	ient Temperatu	re: 22.2°C	C Liquid	Temperatu	re: 21.7°C		
Freq	uency	Toot Mode	Test	Figure	Conducted	Max. tune-up	Measured SAR(1g)	Reported	Power
MHz	Ch.	Test Mode	Position	No.	(dBm)	Power (dBm)	(W/kg)	SAR(1g) (W/kg)	Drift(dB)
2535	21100	1RB_High	Left Touch	Fig.17	22.42	23.3	0.201	0.25	0.08
2535	21100	50RB_High	Left Touch	/	21.41	22.3	0.179	0.22	0.07
2535	21100	1RB_High	Left Tilt	/	22.42	23.3	0.073	0.09	0.08
2535	21100	50RB_High	Left Tilt	/	21.41	22.3	0.044	0.05	0.08
2535	21100	1RB_High	Right Touch	/	22.42	23.3	0.152	0.19	0.06
2535	21100	50RB_High	Right Touch	/	21.41	22.3	0.102	0.13	0.09
2535	21100	1RB_High	Right Tilt	/	22.42	23.3	0.063	0.08	0.05
2535	21100	50RB_High	Right Tilt	/	21.41	22.3	0.050	0.06	0.09

Table 14.19: SAR Values (LTE Band 7 - Body)

	Table 14.13. SAN Values (LTE Ballu 7 - Body)											
		Amb	ient Temperatı	ure: 22.2°C	Liquid T	emperatu	e: 21.7°C					
Freq MHz	uency Ch.	Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)			
			H	lotspot Tes	t Data (10mn	n)						
2535	21100	1RB_Mid	Front	/	22.42	23.3	0.327	0.40	0.07			
2535	21100	50RB_High	Front	/	21.41	22.3	0.294	0.36	-0.05			
2535	21100	1RB_Mid	Rear	/	22.42	23.3	0.270	0.33	0.05			
2535	21100	50RB_High	Rear	/	21.41	22.3	0.236	0.29	0.08			
2535	21100	1RB_Mid	Left	/	22.42	23.3	0.131	0.16	0.07			
2535	21100	50RB_High	Left	/	21.41	22.3	0.113	0.14	0.03			
2535	21100	1RB_Mid	Right	/	22.42	23.3	0.140	0.17	0.01			
2535	21100	50RB_High	Right	/	21.41	22.3	0.118	0.14	-0.01			
2535	21100	1RB_Mid	Bottom	Fig.18	22.42	23.3	0.409	0.50	-0.03			
2535	21100	50RB_High	Bottom	/	21.41	22.3	0.394	0.48	-0.06			
			Вс	dy Worn Te	est Data (15n	nm)						
2535	21100	1RB_Mid	Front	/	22.42	23.3	0.184	0.23	-0.07			
2535	21100	50RB_High	Front	/	21.41	22.3	0.137	0.17	-0.02			
2535	21100	1RB_Mid	Rear	/	22.42	23.3	0.158	0.19	0.08			
2535	21100	50RB_High	Rear	/	21.41	22.3	0.118	0.14	0.01			



Table 14.20: SAR Values (LTE Band 12 - Head)

		Ambi	ent Temperatur	e: 22.5°C	Liquid	Temperatui	re: 22.0°C		
Freq	uency		Test	Figure	Conducted	Max.	Measured	Reported	Power
MHz	Ch.	Test Mode	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)
707.5	23095	1RB_High	Left Touch	Fig.19	22.36	23.3	0.085	0.11	0.06
707.5	23095	25RB_High	Left Touch	/	21.39	22.3	0.069	0.09	0.01
707.5	23095	1RB_High	Left Tilt	/	22.36	23.3	0.045	0.06	0.02
707.5	23095	25RB_High	Left Tilt	/	21.39	22.3	0.038	0.05	0.02
707.5	23095	1RB_High	Right Touch	/	22.36	23.3	0.072	0.09	0.07
707.5	23095	25RB_High	Right Touch	/	21.39	22.3	0.060	0.07	0.09
707.5	23095	1RB_High	Right Tilt	/	22.36	23.3	0.034	0.04	-0.05
707.5	23095	25RB_High	Right Tilt	/	21.39	22.3	0.028	0.03	0.08

Table 14.21: SAR Values (LTE Band 12 - Body)

	Table 14.21. SAR Values (LTE Ballu 12 - Bouy)											
		Ambi	ent Temperatu	ıre: 22.8°C	Liquid T	emperatui	e: 22.2°C					
Frequence MHz	uency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)			
			F	lotspot Tes	t Data (10mn	ո)						
707.5	23095	1RB_High	Front	Fig.20	22.36	23.3	0.187	0.23	0.05			
707.5	23095	25RB_High	Front	/	21.39	22.3	0.157	0.19	0.08			
707.5	23095	1RB_High	Rear	/	22.36	23.3	0.111	0.14	0.09			
707.5	23095	25RB_High	Rear	/	21.39	22.3	0.089	0.11	0.03			
707.5	23095	1RB_High	Left	/	22.36	23.3	0.143	0.18	0.08			
707.5	23095	25RB_High	Left	/	21.39	22.3	0.120	0.15	-0.07			
707.5	23095	1RB_High	Right	/	22.36	23.3	0.116	0.14	-0.07			
707.5	23095	25RB_High	Right	/	21.39	22.3	0.095	0.12	0.02			
707.5	23095	1RB_High	Bottom	/	22.36	23.3	0.035	0.04	0.04			
707.5	23095	25RB_High	Bottom	/	21.39	22.3	0.031	0.04	0.01			
			Во	dy Worn Te	est Data (15m	nm)						
707.5	23095	1RB_High	Front	/	22.36	23.3	0.149	0.19	0.05			
707.5	23095	25RB_High	Front	/	21.39	22.3	0.122	0.15	-0.03			
707.5	23095	1RB_High	Rear	/	22.36	23.3	0.107	0.13	0.06			
707.5	23095	25RB_High	Rear	/	21.39	22.3	0.084	0.10	0.09			



Table 14.22: SAR Values (LTE Band 17 - Head)

	Ambient Temperature: 22.5°C Liquid Temperature: 22.0°C												
Freq MHz	uency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)				
710	23790	1RB_High	Left Touch	Fig.21	22.38	23.3	0.084	0.10	0.06				
710	23790	25RB_Mid	Left Touch	/	21.40	22.3	0.067	0.08	0.03				
710	23790	1RB_High	Left Tilt	/	22.38	23.3	0.045	0.06	0.06				
710	23790	25RB_Mid	Left Tilt	/	21.40	22.3	0.036	0.04	0.03				
710	23790	1RB_High	Right Touch	/	22.38	23.3	0.072	0.09	0.01				
710	23790	25RB_Mid	Right Touch	/	21.40	22.3	0.057	0.07	0.06				
710	23790	1RB_High	Right Tilt	/	22.38	23.3	0.034	0.04	0.07				
710	23790	25RB_Mid	Right Tilt	/	21.40	22.3	0.028	0.03	0.08				

Table 14.23: SAR Values (LTE Band 17 - Body)

	Table 14.23. SAR Values (LTE Ballu 17 - Bouy)											
		Ambi	ent Temperatu	ıre: 22.8°C	Liquid T	emperatur	e: 22.2°C					
Freq MHz	uency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)			
			H	lotspot Tes	t Data (10mn	1)						
710	23790	1RB_High	Front	Fig.22	22.38	23.3	0.192	0.24	0.05			
710	23790	25RB_Mid	Front	/	21.40	22.3	0.148	0.18	0.05			
710	23790	1RB_High	Rear	/	22.38	23.3	0.111	0.14	0.03			
710	23790	25RB_Mid	Rear	/	21.40	22.3	0.087	0.11	-0.08			
710	23790	1RB_High	Left	/	22.38	23.3	0.158	0.20	-0.03			
710	23790	25RB_Mid	Left	/	21.40	22.3	0.124	0.15	0.05			
710	23790	1RB_High	Right	/	22.38	23.3	0.125	0.15	0.01			
710	23790	25RB_Mid	Right	/	21.40	22.3	0.096	0.12	0.04			
710	23790	1RB_High	Bottom	/	22.38	23.3	0.037	0.05	0.10			
710	23790	25RB_Mid	Bottom	1	21.40	22.3	0.030	0.04	0.12			
	Body Worn Test Data (15mm)											
710	23790	1RB_High	Front	/	22.38	23.3	0.152	0.19	0.03			
710	23790	25RB_Mid	Front	/	21.40	22.3	0.120	0.15	0.04			
710	23790	1RB_High	Rear	/	22.38	23.3	0.104	0.13	0.08			
710	23790	25RB_Mid	Rear	/	21.40	22.3	0.083	0.10	0.03			



Table 14.24: SAR Values (LTE Band 38 - Head)

	Ambient Temperature: 22.2°C Liquid Temperature: 21.7°C												
Freq	uency		Test	Figure	Conducted	Max.	Measured	Reported	Power				
MHz	Ch.	Test Mode	Position	No.	Power (dBm)	tune-up Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)				
2595	38000	1RB_Low	Left Touch	Fig.23	22.39	23.3	0.112	0.14	0.04				
2595	38000	50RB_High	Left Touch	/	21.31	22.3	0.097	0.12	0.05				
2595	38000	1RB_Low	Left Tilt	/	22.39	23.3	0.027	0.03	0.13				
2595	38000	50RB_High	Left Tilt	/	21.31	22.3	0.023	0.03	0.09				
2595	38000	1RB_Low	Right Touch	/	22.39	23.3	0.076	0.09	0.02				
2595	38000	50RB_High	Right Touch	/	21.31	22.3	0.057	0.07	0.05				
2595	38000	1RB_Low	Right Tilt	/	22.39	23.3	0.028	0.03	0.07				
2595	38000	50RB_High	Right Tilt	/	21.31	22.3	0.018	0.02	0.06				

Table 14.25: SAR Values (LTE Band 38 - Body)

	Table 14.25. SAR Values (LTE ballu 30 - Bouy)												
		Amb	ient Temperatı	ure: 22.2°C	Liquid T	emperatui	re: 21.7°C						
Freq MHz	uency Ch.	Test Mode	Test Position	Figure No. / Note	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)				
	Hotspot Test Data (10mm)												
2595	38000	1RB_Low	Front	/	22.39	23.3	0.213	0.26	0.07				
2595	38000	50RB_High	Front	/	21.31	22.3	0.156	0.20	-0.08				
2595	38000	1RB_Low	Rear	/	22.39	23.3	0.146	0.18	0.02				
2595	38000	50RB_High	Rear	/	21.31	22.3	0.113	0.14	0.03				
2595	38000	1RB_Low	Left	/	22.39	23.3	0.069	0.09	0.07				
2595	38000	50RB_High	Left	/	21.31	22.3	0.051	0.06	0.04				
2595	38000	1RB_Low	Right	/	22.39	23.3	0.097	0.12	0.03				
2595	38000	50RB_High	Right	/	21.31	22.3	0.072	0.09	0.01				
2595	38000	1RB_Low	Bottom	Fig.24	22.39	23.3	0.259	0.32	-0.06				
2595	38000	50RB_High	Bottom	/	21.31	22.3	0.238	0.30	-0.04				
			Вс	ody Worn Te	est Data (15n	nm)							
2595	38000	1RB_Low	Front	/	22.39	23.3	0.069	0.09	0.07				
2595	38000	50RB_High	Front	/	21.31	22.3	0.051	0.06	0.04				
2595	38000	1RB_Low	Rear	/	22.39	23.3	0.097	0.12	0.03				
2595	38000	50RB_High	Rear	/	21.31	22.3	0.072	0.09	0.01				



14.2 WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the <u>initial test</u> <u>position</u> procedure.

Head Evaluation

Table 14.26: SAR Values (WLAN 2.4G - Head)-802.11b 1Mbps

	Ambient Temperature: 22.6°C Liquid Temperature: 22.0°C												
Frequ	ency	Toot	Test	Figure	Conducted	Max.	Measured	Reported	Power				
MHz	Test		Position		Power (dBm)	tune-up Power (dBm)	SAR(1g) (W/kg)	SAR(1g) (W/kg)	Drift(dB)				
2437	6	802.11 b	Left Touch	/	15.55	16	0.734	0.81	0.01				
2437	6	802.11 b	Left Tilt	/	15.55	16	0.611	0.68	0.11				
2437	6	802.11 b	Right Touch	/	15.55	16	0.348	0.39	-0.15				
2437	6	802.11 b	Right Tilt	/	15.55	16	0.404	0.45	0.03				
2462	11	802.11 b	Left Touch	Fig.25	15.33	16	0.701	0.82	0.08				

Note1:For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is \leq 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. A maximum transmission duty factor of 100% is achievable for WLAN in this project and the scaled reported SAR is presented as below.

Table 14.27: SAR Values (WLAN - Head) - 802.11b 1Mbps (Scaled Reported SAR)

Freque	Frequency Test Position		Actual duty	maximum duty	Reported SAR	Scaled reported SAR	
MHz	Ch.		factor	factor	(1g)(W/kg)	(1g)(W/kg)	
2462	11	Left Touch	100%	100%	0.82	0.82	

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.



Body Evaluation

Table 14.28: SAR Values (WLAN 2.4G - Body)- 802.11b 1Mbps

	Ambient Temperature: 22.6°C Liquid Temperature: 22.0°C										
Frequ MHz	ency Ch.	Test Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift(dB)		
	Hotspot Test Data (10mm)										
2437	6	802.11 b	Front	/	15.55	16	0.108	0.12	0.04		
2437	6	802.11 b	Rear	/	15.55	16	0.070	0.08	0.06		
2437	6	802.11 b	Right	/	15.55	16	0.075	0.08	0.08		
2437	6	802.11 b	Тор	Fig.26	15.55	16	0.162	0.18	0.01		
	Body Worn Test Data (15mm)										
2437	6	802.11 b	Front	/	15.55	16	0.071	0.08	0.01		
2437	6	802.11 b	Rear	/	15.55	16	0.043	0.05	0.03		

Note1:For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is \leq 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. A maximum transmission duty factor of 100% is achievable for WLAN in this project and the scaled reported SAR is presented as below.

Table 14.29: SAR Values (WLAN - Body) – 802.11b 1Mbps (Scaled Reported SAR)

	Ambient Temperature: 22.6°C Liquid Temperature: 22.0°C												
Freque	ency	Test	Actual duty	maximum duty	Reported SAR	Scaled reported SAR							
MHz	MHz Ch. Position		factor	factor	(1g)(W/kg)	(1g)(W/kg)							
2437	6	Rear	100%	100%	0.18	0.18							

SAR is not required for OFDM because the 802.11b adjusted SAR \leq 1.2 W/kg.