

14.1 SAR results

Table 14-1 GSM850 #1 Head

GSM850 #1 Head								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz
GSM	Tune-up		32.50	32.50	32.50	Scaling factor*		
	Slot Average Power [dBm]		31.54	31.58	31.53	1.25	1.23	1.25
	Left Cheek	1g SAR		0.127			0.16	
		10g SAR		0.102			0.13	
		Deviation		0.05			0.05	
	Left Tilt	1g SAR		0.087			0.11	
		10g SAR		0.07			0.09	
		Deviation		-0.01			-0.01	
	Right Cheek	1g SAR	0.168	0.159	0.145	0.21	0.20	0.18
		10g SAR	0.13	0.12	0.111	0.16	0.15	0.14
		Deviation	0.2	0.06	0.03	0.20	0.06	0.03
	Right Tilt	1g SAR		0.095			0.12	
		10g SAR		0.077			0.10	
		Deviation		-0.08			-0.08	

Table 14-2 GSM850 #1 Body

GSM850 #1 Body									
Ambient Temperature: 22.5				Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	
GPRS 4 Txslots	Tune-up		28.50	28.50	28.50	Scaling factor*			
	Slot Average Power [dBm]		27.49	27.73	27.63	1.26	1.19	1.22	
	Front	1g SAR		0.292			0.35		
		10g SAR		0.198			0.24		
		Deviation		0.09			0.09		
	Rear	1g SAR	0.386	0.325	0.331	0.49	0.39	0.40	
		10g SAR	0.215	0.173	0.18	0.27	0.21	0.22	
		Deviation	-0.05	0.03	-0.08	-0.05	0.03	-0.08	
	Left edge	1g SAR		0.195			0.23		
		10g SAR		0.124			0.15		
		Deviation		-0.1			-0.10		
	Right edge	1g SAR		0.269			0.32		
		10g SAR		0.167			0.20		
		Deviation		0.05			0.05		
	Bottom edge	1g SAR		0.154			0.18		
		10g SAR		0.079			0.09		
		Deviation		0.04			0.04		
	EGPRS GMSK 4 Txslots	Tune-up		28.50	28.50	28.50	Scaling factor*		
		Slot Average Power [dBm]		27.67	27.68	27.59	1.21	1.21	1.23
		Rear	1g SAR	0.378			0.46		
			10g SAR	0.187			0.23		
Deviation			-0.07			-0.07			

Table 14-3 PCS1900 #1 Head

PCS1900 #1 Head								
Ambient Temperature: 22.5					Liquid Temperature: 22.3			
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2
GSM	Tune-up		30.30	30.30	30.30	Scaling factor*		
	Slot Average Power [dBm]		29.44	29.51	29.77	1.22	1.20	1.13
	Left Cheek	1g SAR		0.173			0.21	
		10g SAR		0.107			0.13	
		Deviation		0.07			0.07	
	Left Tilt	1g SAR		0.096			0.12	
		10g SAR		0.056			0.07	
		Deviation		-0.04			-0.04	
	Right Cheek	1g SAR	0.265	0.252	0.204	0.32	0.30	0.23
		10g SAR	0.153	0.147	0.12	0.19	0.18	0.14
		Deviation	-0.11	-0.01	0.08	-0.11	-0.01	0.08
	Right Tilt	1g SAR		0.034			0.04	
		10g SAR		0.018			0.02	
		Deviation		0.03			0.03	

Table 14-4 PCS1900 #1 Body

PCS1900 #1 Body								
Ambient Temperature: 22.5					Liquid Temperature: 22.3			
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2
GPRS 4 Txslots	Tune-up		25.00	25.00	25.00	Scaling factor*		
	Slot Average Power [dBm]		24.07	24.10	24.12	1.24	1.23	1.22
	Front	1g SAR		0.297			0.37	
		10g SAR		0.171			0.21	
		Deviation		0.05			0.05	
	Rear	1g SAR		0.305			0.38	
		10g SAR		0.163			0.20	
		Deviation		0.01			0.01	
	Left edge	1g SAR		0.117			0.14	
		10g SAR		0.065			0.08	
		Deviation		-0.06			-0.06	
	Right edge	1g SAR		0.091			0.11	
		10g SAR		0.054			0.07	
		Deviation		-0.03			-0.03	
	Bottom edge	1g SAR	0.424	0.397	0.378	0.53	0.49	0.46
		10g SAR	0.211	0.191	0.185	0.26	0.23	0.23
		Deviation	-0.03	0.09	0.01	-0.03	0.09	0.01
	EGPRS GMSK 4 Txslots	Tune-up		25.00	25.00	25.00	Scaling factor*	
Slot Average Power [dBm]		24.04	24.08	24.10	1.25	1.24	1.23	
Bottom edge		1g SAR	0.415			0.52		
		10g SAR	0.201			0.25		
	Deviation	0.04			0.04			

Table 14-5 WCDMA1900-BII #1Head

WCDMA1900-BII #1Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	
RMC	Tune-up		24.00	24.00	24.00	Scaling factor*			
	Slot Average Power [dBm]		23.41	23.40	23.37	1.15	1.15	1.16	
	Left Cheek	1g SAR		0.308			0.35		
		10g SAR		0.194			0.22		
		Deviation		0.05			0.05		
	Left Tilt	1g SAR		0.162			0.19		
		10g SAR		0.098			0.11		
		Deviation		-0.08			-0.08		
	Right Cheek	1g SAR	0.477	0.481	0.515	0.55	0.55	0.60	
		10g SAR	0.276	0.278	0.301	0.32	0.32	0.35	
		Deviation	0.02	-0.06	0.01	0.02	-0.06	0.01	
	Right Tilt	1g SAR		0.113			0.13		
		10g SAR		0.071			0.08		
		Deviation		0.06			0.06		

Table 14-6 WCDMA1900-BII #1Body

WCDMA1900-BII #1Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	
RMC	Tune-up		24.00	24.00	24.00	Scaling factor*			
	Slot Average Power [dBm]		23.41	23.40	23.37	1.15	1.15	1.16	
	Front	1g SAR	0.583	0.624	0.719	0.67	0.72	0.83	
		10g SAR	0.336	0.37	0.434	0.38	0.42	0.50	
		Deviation	0.06	0.01	0.09	0.06	0.01	0.09	
	Rear	1g SAR		0.585			0.67		
		10g SAR		0.324			0.37		
		Deviation		0.04			0.04		
	Left edge	1g SAR		0.585			0.67		
		10g SAR		0.324			0.37		
		Deviation		-0.02			-0.02		
	Right edge	1g SAR		0.208			0.24		
		10g SAR		0.12			0.14		
		Deviation		-0.01			-0.01		
	Bottom edge	1g SAR		0.179			0.21		
10g SAR			0.106			0.12			
Deviation			-0.07			-0.07			

Table 14-7 WCDMA1700-BIV #1Head

WCDMA1700-BIV #1Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	
RMC	Tune-up		24.00	24.00	24.00	Scaling factor*			
	Slot Average Power [dBm]		23.88	23.94	23.91	1.03	1.01	1.02	
	Left Cheek	1g SAR	0.348	0.318	0.329	0.36	0.32	0.34	
		10g SAR	0.214	0.197	0.204	0.22	0.20	0.21	
		Deviation	-0.04	0.04	0.01	-0.04	0.04	0.01	
	Left Tilt	1g SAR		0.095			0.10		
		10g SAR		0.055			0.06		
		Deviation		-0.09			-0.09		
	Right Cheek	1g SAR		0.219			0.22		
		10g SAR		0.135			0.14		
		Deviation		-0.03			-0.03		
	Right Tilt	1g SAR		0.081			0.08		
		10g SAR		0.052			0.05		
		Deviation		0.05			0.05		

Table 14-8 WCDMA1700-BIV #1Body

WCDMA1700-BIV #1Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	
RMC	Tune-up		24.00	24.00	24.00	Scaling factor*			
	Slot Average Power [dBm]		23.88	23.94	23.91	1.03	1.01	1.02	
	Front	1g SAR	0.717	0.987	0.601	0.74	1.00	0.61	
		10g SAR	0.314	0.595	0.3	0.32	0.60	0.31	
		Deviation	0.06	0.06	-0.01	0.06	0.06	-0.01	
	Rear	1g SAR	0.949	0.968	0.895	0.98	0.98	0.91	
		10g SAR	0.565	0.568	0.534	0.58	0.58	0.55	
		Deviation	-0.04	-0.06	0.03	-0.04	-0.06	0.03	
	Left edge	1g SAR		0.364			0.37		
		10g SAR		0.212			0.21		
		Deviation		0.09			0.09		
	Right edge	1g SAR		0.297			0.30		
		10g SAR		0.184			0.19		
		Deviation		0.1			0.10		
	Bottom edge	1g SAR	0.689	0.859	0.835	0.71	0.87	0.85	
10g SAR		0.22	0.463	0.45	0.23	0.47	0.46		
Deviation		0.04	-0.07	-0.01	0.04	-0.07	-0.01		

Table 14-9 WCDMA850-BV #1Head

WCDMA850-BV #1Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	
RMC	Tune-up		24.00	24.00	24.00	Scaling factor*			
	Slot Average Power [dBm]		23.44	23.47	23.45	1.14	1.13	1.14	
	Left Cheek	1g SAR		0.17			0.19		
		10g SAR		0.136			0.15		
		Deviation		0.06			0.06		
	Left Tilt	1g SAR		0.118			0.13		
		10g SAR		0.093			0.11		
		Deviation		-0.01			-0.01		
	Right Cheek	1g SAR	0.222	0.219	0.219	0.25	0.25	0.25	
		10g SAR	0.172	0.169	0.169	0.20	0.19	0.19	
		Deviation	0.14	0.09	0.03	0.14	0.09	0.03	
	Right Tilt	1g SAR		0.122			0.14		
		10g SAR		0.099			0.11		
		Deviation		0.02			0.02		

Table 14-10 WCDMA850-BV #1Body

WCDMA850-BV #1Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	
RMC	Tune-up		24.00	24.00	24.00	Scaling factor*			
	Slot Average Power [dBm]		23.44	23.47	23.45	1.14	1.13	1.14	
	Front	1g SAR		0.231			0.26		
		10g SAR		0.166			0.19		
		Deviation		0.05			0.05		
	Rear	1g SAR	0.328	0.3	0.278	0.37	0.34	0.32	
		10g SAR	0.181	0.167	0.199	0.21	0.19	0.23	
		Deviation	0.03	-0.01	-0.06	0.03	-0.01	-0.06	
	Left edge	1g SAR		0.159			0.18		
		10g SAR		0.106			0.12		
		Deviation		0.03			0.03		
	Right edge	1g SAR		0.221			0.25		
		10g SAR		0.148			0.17		
		Deviation		-0.09			-0.09		
	Bottom edge	1g SAR		0.144			0.16		
10g SAR			0.08			0.09			
Deviation			0.01			0.01			



Table 14-11 LTE1900-FDD2 #1 Head

LTE1900-FDD2 #1 Head								
Ambient Temperature: 22.5			Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	M	M	M	M	M
20MHz QPSK1RB	Tune-up		24.00	24.00	24.00	Scaling factor*		
	Measured Power [dBm]		23.44	23.02	23.00	1.14	1.25	1.26
	Left Cheek	1g SAR	0.296			0.34		
		10g SAR	0.183			0.21		
		Deviation	-0.05			-0.05		
	Left Tilt	1g SAR	0.189			0.22		
		10g SAR	0.111			0.13		
		Deviation	0.03			0.03		
	Right Cheek	1g SAR	0.465			0.53		
		10g SAR	0.27			0.31		
		Deviation	0.13			0.13		
	Right Tilt	1g SAR	0.102			0.12		
		10g SAR	0.063			0.07		
		Deviation	0.09			0.09		
	TRUE	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]	
19100				18900	18700	19100	18900	18700
M				L	H	M	L	H
20MHz QPSK50% RB	Tune-up		23.00	23.00	23.00	Scaling factor*		
	Measured Power [dBm]		22.40	22.43	21.87	1.15	1.14	1.30
	Left Cheek	1g SAR		0.252			0.29	
		10g SAR		0.157			0.18	
		Deviation		0.02			0.02	
	Left Tilt	1g SAR		0.162			0.18	
		10g SAR		0.097			0.11	
		Deviation		-0.06			-0.06	
	Right Cheek	1g SAR		0.361			0.41	
		10g SAR		0.207			0.24	
		Deviation		-0.01			-0.01	
	Right Tilt	1g SAR		0.092			0.10	
		10g SAR		0.055			0.06	
		Deviation		0.04			0.04	

Table 14-12 LTE1900-FDD2 #1 Body

LTE1900-FDD2 #1 Body								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	M	M	M	M	M
20MHz QPSK1RB	Tune-up		24.00	24.00	24.00	Scaling factor*		
	Measured Power [dBm]		23.44	23.02	23.00	1.14	1.25	1.26
	Front	1g SAR	0.688			0.78		
		10g SAR	0.362			0.41		
		Deviation	0.09			0.09		
	Rear	1g SAR	0.689			0.78		
		10g SAR	0.365			0.42		
		Deviation	0.08			0.08		
	Left edge	1g SAR	0.14			0.16		
		10g SAR	0.077			0.09		
		Deviation	-0.04			-0.04		
	Right edge	1g SAR	0.237			0.27		
		10g SAR	0.133			0.15		
		Deviation	-0.01			-0.01		
	Bottom edge	1g SAR	0.658			0.75		
10g SAR		0.319			0.36			
Deviation		0.05			0.05			
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	L	H			
20MHz QPSK50% RB	Tune-up		23.00	23.00	23.00	Scaling factor*		
	Measured Power [dBm]		22.40	22.43	21.87	1.15	1.14	1.30
	Front	1g SAR		0.616			0.70	
		10g SAR		0.358			0.41	
		Deviation		0.03			0.03	
	Rear	1g SAR		0.571			0.65	
		10g SAR		0.333			0.38	
		Deviation		0.07			0.07	
	Left edge	1g SAR		0.12			0.14	
		10g SAR		0.068			0.08	
		Deviation		-0.03			-0.03	
	Right edge	1g SAR		0.218			0.25	
		10g SAR		0.119			0.14	
		Deviation		-0.01			-0.01	
	Bottom edge	1g SAR		0.595			0.68	
10g SAR			0.291			0.33		
Deviation			0.02			0.02		



Table 14-13 LTE850-FDD5 #1 Head

LTE850-FDD5 #1 Head								
Ambient Temperature: 22.5			Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			20600 M	20525 M	20450 M	20600 M	20525 M	20450 M
10MHz QPSK1RB	Tune-up		24.50	24.50	24.50	Scaling factor*		
	Measured Power [dBm]		23.47	23.37	23.45	1.27	1.30	1.27
	Left Cheek	1g SAR	0.19			0.24		
		10g SAR	0.153			0.19		
		Deviation	0.05			0.05		
	Left Tilt	1g SAR	0.165			0.21		
		10g SAR	0.132			0.17		
		Deviation	-0.03			-0.03		
	Right Cheek	1g SAR	0.243			0.31		
		10g SAR	0.186			0.24		
		Deviation	0.11			0.11		
	Right Tilt	1g SAR	0.124			0.16		
		10g SAR	0.101			0.13		
		Deviation	0.06			0.06		
TRUE	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			20600 H	20525 M	20450 M	20600 H	20525 M	20450 M
10MHz QPSK50% RB	Tune-up		23.50	23.50	23.50	Scaling factor*		
	Measured Power [dBm]		22.38	22.40	22.34	1.29	1.29	1.30
	Left Cheek	1g SAR		0.144			0.19	
		10g SAR		0.117			0.15	
		Deviation		0.01			0.01	
	Left Tilt	1g SAR		0.11			0.14	
		10g SAR		0.089			0.11	
		Deviation		-0.04			-0.04	
	Right Cheek	1g SAR		0.185			0.24	
		10g SAR		0.144			0.19	
		Deviation		-0.01			-0.01	
	Right Tilt	1g SAR		0.105			0.14	
		10g SAR		0.085			0.11	
		Deviation		0.03			0.03	