

14. SAR DATA SUMMARY

Mixture Type: 835MHz Muscle



P/N: MC9094-KKCHJEHA6WW

14.1 MEASUREMENT RESULTS (GSM 850MHz, Body SAR – w/ Holster)														
FREQUENCY		Modulation	Begin / End Average POWER*		Test Position	WLAN 802.11abg MHz	Data Rate (Mbps)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)		
			(dBm)											
MHz	Ch.													
836.6	190	GSM	33.00	33.00	Front	-	-	-	-	Fixed	2.5 cm	0.016		
836.6	190	GSM	33.00	33.00	Back	-	-	-	-	Fixed	2.5 cm	0.172		
836.6	190	GSM	33.00	33.00	Back	-	-	SD	2441	Fixed	2.5 cm	0.198		
836.6	190	GSM	33.00	33.00	Back	2437	11	SD	2441	Fixed	2.5 cm	0.237		
836.6	190	GSM	33.00	33.00	Back	2437	12	SD	2441	Fixed	2.5 cm	0.207		
836.6	190	GSM	33.00	33.00	Back	5260	18	SD	2441	Fixed	2.5 cm	0.212		
836.6	190	GSM	33.00	33.00	Back	5785	18	SD	2441	Fixed	2.5 cm	0.209		
**836.6	190	GSM	33.00	33.00	Back	2437	18	SD	2441	Fixed	2.5 cm	0.210		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle								
Spatial Peak						1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population						averaged over 1 gram								

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data bit rates, and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- *Power Measured Conducted ERP EIRP
4. SAR Measurement System DASY4 IDX
 - Phantom Configuration Left Head Flat Phantom Right Head
 5. SAR Configuration Head Body Hand
 6. Test Signal Call Mode Software Base Station Simulator
 7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1
 9. ** Alternate GSM Antenna tested, worst-case results reported.


Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094
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SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Muscle

P/N: MC9094-KKCHJEHA6WW


14.2 MEASUREMENT RESULTS (GSM 1900MHz, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [†]		Test Position	WLAN 802.11abg (MHz)	Data Rate (Mbps)	Mem. Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
1880.0	661	GSM	30.0	30.0	Front	-	-	-	-	Fixed	2.5 cm	0.019
1880.0	661	GSM	30.0	30.0	Back	-	-	-	-	Fixed	2.5 cm	0.178
1880.0	661	GSM	30.0	30.0	Back	-	-	SD	2441	Fixed	2.5 cm	0.191
1880.0	661	GSM	30.0	30.0	Back	2437	11	SD	2441	Fixed	2.5 cm	0.185
1880.0	661	GSM	30.0	30.0	Back	2437	12	SD	2441	Fixed	2.5 cm	0.172
1880.0	661	GSM	30.0	30.0	Back	5260	18	SD	2441	Fixed	2.5 cm	0.204
1880.0	661	GSM	30.0	30.0	Back	5785	18	SD	2441	Fixed	2.5 cm	0.251
**1880.0	661	GSM	30.0	30.0	Back	5785	18	SD	2441	Fixed	2.5 cm	0.417
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					<p style="margin: 0;">Muscle</p> <p style="margin: 0;">1.6 W/kg (mW/g)</p> <p style="margin: 0;">averaged over 1 gram</p>							
Spatial Peak Uncontrolled Exposure/General Population												

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data bit rates, and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- | | | | |
|---------------------------|---|--|-------------------------------------|
| *Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY4 | <input type="checkbox"/> IDX | |
| Phantom Configuration | <input type="checkbox"/> Left Head | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Right Head |
| 5. SAR Configuration | <input type="checkbox"/> Head | <input checked="" type="checkbox"/> Body | <input type="checkbox"/> Hand |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> Software | <input type="checkbox"/> Base Station Simulator | |
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1
 9. ** Alternate GSM Antenna tested, worst-case results reported.



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION		symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094	Page 19 of 34

SAR DATA SUMMARY (Continued)

Mixture Type: 2450MHz Muscle

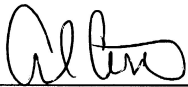
P/N: MC9094-KKCHJEHA6WW

14.3 MEASUREMENT RESULTS (802.11b, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [†]		Test Position	Data Rate (Mbps)	BT (MHz)	Memory Card	GSM 850/1900 (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
2437	06	DSSS	19.42	19.41	Front	5.5	-	-	-	Diversity	2.5 cm	0.045
2437	06	DSSS	19.43	19.42	Back	5.5	-	-	-	Diversity	2.5 cm	0.009
2437	06	DSSS	19.39	19.40	Front	5.5	-	-	-	Main	2.5 cm	0.056
2437	06	DSSS	19.42	19.42	Front	5.5	-	-	-	Aux	2.5 cm	0.059
2437	06	DSSS	19.41	19.40	Front	1	-	-	-	Aux	2.5 cm	0.043
2437	06	DSSS	19.39	19.39	Front	2	-	-	-	Aux	2.5 cm	0.048
2437	06	DSSS	19.43	19.43	Front	11	-	-	-	Aux	2.5 cm	0.064
2437	06	DSSS	19.41	19.39	Front	11	2441	SD	-	Aux	2.5 cm	0.068
2437	06	DSSS	19.40	19.41	Front	11	2441	SD	836.6	Aux	2.5 cm	0.082
2437	06	DSSS	19.42	19.42	Front	11	2441	SD	1880.0	Aux	2.5 cm	0.079
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle						
Spatial Peak						1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population						averaged over 1 gram						


NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard Batteries are the only options.

*Power Measured	<input checked="" type="checkbox"/> Conducted	<input type="checkbox"/> ERP
4. SAR Measurement System	<input checked="" type="checkbox"/> DASY4	<input type="checkbox"/> IDX
Phantom Configuration	<input type="checkbox"/> Left Head	<input checked="" type="checkbox"/> Flat Phantom
5. SAR Configuration	<input type="checkbox"/> Head	<input checked="" type="checkbox"/> Body
6. Test Signal Call Mode	<input checked="" type="checkbox"/> Software	<input type="checkbox"/> Base Station Simulator
		<input type="checkbox"/> EIRP
		<input type="checkbox"/> Right Head
		<input type="checkbox"/> Hand
7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1



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Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION	symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094
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SAR DATA SUMMARY (Continued)


Mixture Type: 2450MHz Muscle
P/N: MC9094-KKCHJEHA6WW

14.4 MEASUREMENT RESULTS (IEEE 802.11g, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	GSM 850/1900 (MHz)	Data Rate (Mbps)	Mem. Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
			MHz	Ch.								
2437	06	OFDM	19.34	19.33	Front	-	6	-	-	Aux	2.5 cm	0.045
2437	06	OFDM	19.33	19.32	Front	-	9	-	-	Aux	2.5 cm	0.047
2437	06	OFDM	19.34	19.34	Front	-	12	-	-	Aux	2.5 cm	0.051
2437	06	OFDM	19.33	19.35	Front	-	18	-	-	Aux	2.5 cm	0.042
2437	06	OFDM	19.35	19.34	Front	-	24	-	-	Aux	2.5 cm	0.044
2437	06	OFDM	19.34	19.33	Front	-	36	-	-	Aux	2.5 cm	0.039
2437	06	OFDM	19.35	19.34	Front	-	48	-	-	Aux	2.5 cm	0.041
2437	06	OFDM	19.33	19.35	Front	-	54	-	-	Aux	2.5 cm	0.043
2437	06	OFDM	19.34	19.34	Front	-	12	SD	2441	Aux	2.5 cm	0.049
2437	06	OFDM	19.35	19.36	Front	836.6	12	SD	2441	Aux	2.5 cm	0.053
2437	06	OFDM	19.34	19.35	Front	1880.0	12	SD	2441	Aux	2.5 cm	0.057
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Muscle 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak												
Uncontrolled Exposure/General Population												

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated including all data bit rates, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard Batteries are the only options.
 - *Power Measured Conducted ERP EIRP
 - 4. SAR Measurement System DASY4 IDX
 - Phantom Configuration Left Head Flat Right Head
 - 5. SAR Configuration Head Body Hand
 - 6. Test Signal Call Mode Software Base Station
7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1


Alfred Cirvithian
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PCTEST™ SAR REPORT		FCC CERTIFICATION	symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094

SAR DATA SUMMARY (Continued)

Mixture Type: 5300MHz Muscle

P/N: MC9094-KKCHJEHA6WW


FREQUENCY		Modulation	Begin / End Average POWER*		Test Position	GSM 850/1900 (MHz)	Data Rate (Mbps)	Mem. Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
			MHz	Ch.								
5260	52	OFDM	18.96	18.98	Front	-	24	-	-	Diversity	2.5 cm	0.084
5260	52	OFDM	18.98	18.97	Back	-	24	-	-	Main	2.5 cm	0.007
5260	52	OFDM	18.97	18.97	Front	-	24	-	-	Aux	2.5 cm	0.096
5260	52	OFDM	18.97	18.98	Front	-	24	-	-	Aux	2.5 cm	0.104
5260	52	OFDM	18.98	18.98	Front	-	6	-	-	Aux	2.5 cm	0.092
5260	52	OFDM	18.97	18.97	Front	-	9	-	-	Aux	2.5 cm	0.107
5260	52	OFDM	18.96	18.96	Front	-	12	-	-	Aux	2.5 cm	0.118
5260	52	OFDM	18.96	18.97	Front	-	18	-	-	Aux	2.5 cm	0.134
5260	52	OFDM	18.98	18.97	Front	-	36	-	-	Aux	2.5 cm	0.127
5260	52	OFDM	18.97	18.98	Front	-	48	-	-	Aux	2.5 cm	0.105
5260	52	OFDM	18.97	18.98	Front	-	54	-	-	Aux	2.5 cm	0.098
5260	52	OFDM	18.96	18.96	Front	-	18	SD	2441	Aux	2.5 cm	0.132
5260	52	OFDM	18.97	18.98	Front	836.6	18	SD	2441	Aux	2.5 cm	0.146
5260	52	OFDM	18.97	18.97	Front	1880.0	18	SD	2441	Aux	2.5 cm	0.139
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Muscle							
Spatial Peak					1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population					averaged over 1 gram							

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- | | | | |
|---------------------------|---|--|-------------------------------------|
| *Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY4 | <input type="checkbox"/> IDX | |
| Phantom Configuration | <input type="checkbox"/> Left Head | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Right Head |
| 5. SAR Configuration | <input type="checkbox"/> Head | <input checked="" type="checkbox"/> Body | <input type="checkbox"/> Hand |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> Software | <input type="checkbox"/> Base Station Simulator | |
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1



Alfred Cirvithian
Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION		symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094	Page 22 of 34

SAR DATA SUMMARY

Mixture Type: 5800MHz Muscle

Model: MC9094-KKCHJEHA6WW


14.6 MEASUREMENT RESULTS (802.11a/ 5.8 GHz, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	Data Rate Mbps	GSM 850/1900 (MHz)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
5805	161	OFDM	18.48	18.47	Front	18	-	-	-	Diversity	2.5 cm	0.079
5805	161	OFDM	18.47	18.46	Front	18	-	-	-	Main	2.5 cm	0.103
5805	161	OFDM	18.49	18.48	Front	18	-	-	-	Aux	2.5 cm	0.112
5805	161	OFDM	18.48	18.48	Front	18	-	SD	2441	Aux	2.5 cm	0.117
5805	161	OFDM	18.47	18.47	Front	18	836.6	SD	2441	Aux	2.5 cm	0.121
5805	161	OFDM	18.48	18.49	Front	18	1880.0	SD	2441	Aux	2.5 cm	0.128
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle						
Spatial Peak						1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population						averaged over 1 gram						

NOTES:

1. The test data reported are the worst-case SAR value with the antenna position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- | | | | |
|---------------------------|---|--|-------------------------------------|
| *Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY4 | <input type="checkbox"/> IDX | |
| Phantom Configuration | <input type="checkbox"/> Left Head | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Right Head |
| 5. SAR Configuration | <input type="checkbox"/> Head | <input checked="" type="checkbox"/> Body | <input type="checkbox"/> Hand |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> Software | <input type="checkbox"/> Base Station Simulator | |
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION	symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094

SAR DATA SUMMARY (Continued)

Mixture Type: 2450MHz Muscle

P/N: MC9094-KKCHJEHA6WW


14.7 MEASUREMENT RESULTS (Bluetooth, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	Data Rate Mbps	GSM 850/1900 (MHz)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
2441	39	FHSS	-0.16	-0.18	Front	-	-	-	-	Fixed	2.5 cm	0.003
2441	39	FHSS	-0.15	-0.17	Front	-	-	SD	-	Fixed	2.5 cm	0.002
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Muscle							
Spatial Peak					1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population					averaged over 1 gram							

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- *Power Measured Conducted ERP EIRP
4. SAR Measurement System DASy4 IDX
- Phantom Configuration Left Head Flat Phantom Right Head
5. SAR Configuration Head Body Hand
6. Test Signal Call Mode Software Base Station Simulator
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION		symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094	Page 24 of 34

15. SAR DATA SUMMARY

Mixture Type: 835MHz Muscle
 Model: MC9094-SKCHJAHA6WW


15.1 MEASUREMENT RESULTS (GSM 850MHz, Body SAR – w/ Holster)											
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	WLAN 802.11 a/b/g (MHz)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)								
836.6	190	GSM	33.00	33.00	Front	-	-	-	Fixed	2.5 cm	0.019
836.6	190	GSM	33.00	33.00	Back	-	-	-	Fixed	2.5 cm	0.169
836.6	190	GSM	33.00	33.00	Back	-	SD	2441	Fixed	2.5 cm	0.170
836.6	190	GSM	33.00	33.00	Back	2437	SD	2441	Fixed	2.5 cm	0.182
836.6	190	GSM	33.00	33.00	Back	2437	SD	2441	Fixed	2.5 cm	0.164
836.6	190	GSM	33.00	33.00	Back	5260	SD	2441	Fixed	2.5 cm	0.206
836.6	190	GSM	33.00	33.00	Back	5805	SD	2441	Fixed	2.5 cm	0.193
**836.6	190	GSM	33.00	33.00	Front	-	-	-	Fixed	2.5 cm	0.043
**836.6	190	GSM	33.00	33.00	Back	-	-	-	Fixed	2.5 cm	0.382
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle					
Spatial Peak						1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population						averaged over 1 gram					

NOTES:

1. The test data reported are the worst-case SAR value with the antenna position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- *Power Measured Conducted ERP EIRP
4. SAR Measurement System DASY4 IDX
- Phantom Configuration Left Head Flat Phantom Right Head
5. SAR Configuration Head Body Hand
6. Test Signal Call Mode Software Base Station Simulator
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1
 9. ** Alternate GSM Antenna tested, worst-case results reported.



Alfred Cirwithian
Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION		symbol	Reviewed by: Quality Manager
SAR Filename: 0508160575-R1	Test Dates: July 18-19 * Aug. 3-10, 2005	Add. Test Dates: Nov. 14-15, 2005	EUT Type: Handheld Terminal	FCC ID: H9PMC9094	Page 25 of 34

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Muscle
P/N: MC9094-SKCHJAH6WW

15.2 MEASUREMENT RESULTS (GSM 1900MHz, Body SAR – w/ Holster)											
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	WLAN 802.11 a/b/g (MHz)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)								
1880.0	661	GSM	30.00	30.00	Front	-	-	-	Fixed	2.5 cm	0.021
1880.0	661	GSM	30.00	30.00	Back	-	-	-	Fixed	2.5 cm	0.163
1880.0	661	GSM	30.00	30.00	Back	-	SD	2441	Fixed	2.5 cm	0.174
1880.0	661	GSM	30.00	30.00	Back	2437	SD	2441	Fixed	2.5 cm	0.243
1880.0	661	GSM	30.00	30.00	Back	2437	SD	2441	Fixed	2.5 cm	0.199
1880.0	661	GSM	30.00	30.00	Back	5260	SD	2441	Fixed	2.5 cm	0.201
1880.0	661	GSM	30.00	30.00	Back	5805	SD	2441	Fixed	2.5 cm	0.187
**1880.0	661	GSM	30.00	30.00	Front	-	-	-	Fixed	2.5 cm	0.007
**1880.0	661	GSM	30.00	30.00	Back	-	-	-	Fixed	2.5 cm	0.395
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle					
Spatial Peak						1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population						averaged over 1 gram					

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
3. Battery is fully charged for all readings. Standard Batteries are the only options.

*Power Measured	<input checked="" type="checkbox"/> Conducted	<input type="checkbox"/> ERP	<input type="checkbox"/> EIRP
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4. SAR Measurement System

<input checked="" type="checkbox"/> DASY4	<input type="checkbox"/> IDX
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 Phantom Configuration


<input type="checkbox"/> Left Head	<input checked="" type="checkbox"/> Flat Phantom	<input type="checkbox"/> Right Head
------------------------------------	--	-------------------------------------
5. SAR Configuration

<input type="checkbox"/> Head	<input checked="" type="checkbox"/> Body	<input type="checkbox"/> Hand
-------------------------------	--	-------------------------------
6. Test Signal Call Mode

<input checked="" type="checkbox"/> Software	<input type="checkbox"/> Base Station Simulator
--	---
7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1
9. ** Alternate GSM Antenna tested, worst-case results reported.



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Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION		symbol	Reviewed by: Quality Manager
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SAR DATA SUMMARY

Mixture Type: 2450MHz Muscle

Model: MC9094-SKCHJAHAA6WW

15.3 MEASUREMENT RESULTS (802.11b, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [†]		Test Position	Data Rate Mbps	GSM 850/1900 (MHz)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
2437	06	DSSS	19.42	19.41	Front	5.5	-	-	-	Diversity	2.5 cm	0.031
2437	06	DSSS	19.43	19.42	Back	5.5	-	-	-	Diversity	2.5 cm	0.007
2437	06	DSSS	19.39	19.40	Front	5.5	-	-	-	Main	2.5 cm	0.055
2437	06	DSSS	19.42	19.42	Front	5.5	-	-	-	Aux	2.5 cm	0.059
2437	06	DSSS	19.41	19.40	Front	1	-	-	-	Aux	2.5 cm	0.047
2437	06	DSSS	19.39	19.39	Front	2	-	-	-	Aux	2.5 cm	0.048
2437	06	DSSS	19.43	19.43	Front	11	-	-	-	Aux	2.5 cm	0.062
2437	06	DSSS	19.41	19.39	Front	11	-	SD	2441	Aux	2.5 cm	0.068
2437	06	DSSS	19.40	19.41	Front	11	836.6	SD	2441	Aux	2.5 cm	0.063
2437	06	DSSS	19.42	19.42	Front	11	1880.0	SD	2441	Aux	2.5 cm	0.065
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle						
Spatial Peak						1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population						averaged over 1 gram						

NOTES:

1. The test data reported are the worst-case SAR value with the antenna position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
3. Battery is fully charged for all readings. Standard Batteries are the only options.

*Power Measured	<input checked="" type="checkbox"/> Conducted	<input type="checkbox"/> ERP	<input type="checkbox"/> EIRP
-----------------	---	------------------------------	-------------------------------
4. SAR Measurement System

<input checked="" type="checkbox"/> DASY4	<input type="checkbox"/> IDX
---	------------------------------

 Phantom Configuration



<input type="checkbox"/> Left Head	<input checked="" type="checkbox"/> Flat Phantom	<input type="checkbox"/> Right Head
------------------------------------	--	-------------------------------------
5. SAR Configuration

<input type="checkbox"/> Head	<input checked="" type="checkbox"/> Body	<input type="checkbox"/> Hand
-------------------------------	--	-------------------------------
6. Test Signal Call Mode

<input checked="" type="checkbox"/> Software	<input type="checkbox"/> Base Station Simulator
--	---
7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1



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PCTEST™ SAR REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
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SAR DATA SUMMARY (Continued)

Mixture Type: 900MHz Muscle

P/N: MC9094-SKCHJAHA6WW


15.4 MEASUREMENT RESULTS (802.11g, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	Data Rate Mbps	GSM 850/1900 (MHz)	Memory Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
2437	06	OFDM	19.34	19.33	Front	6	-	-	-	Aux	2.5 cm	0.049
2437	06	OFDM	19.33	19.32	Front	9	-	-	-	Aux	2.5 cm	0.052
2437	06	OFDM	19.34	19.34	Front	12	-	-	-	Aux	2.5 cm	0.054
2437	06	OFDM	19.33	19.35	Front	18	-	-	-	Aux	2.5 cm	0.060
2437	06	OFDM	19.35	19.34	Front	24	-	-	-	Aux	2.5 cm	0.056
2437	06	OFDM	19.34	19.33	Front	36	-	-	-	Aux	2.5 cm	0.054
2437	06	OFDM	19.35	19.34	Front	48	-	-	-	Aux	2.5 cm	0.049
2437	06	OFDM	19.33	19.35	Front	54	-	-	-	Aux	2.5 cm	0.048
2437	06	OFDM	19.34	19.34	Front	18	-	SD	2441	Aux	2.5 cm	0.050
2437	06	OFDM	19.35	19.36	Front	18	836.6	SD	2441	Aux	2.5 cm	0.061
2437	06	OFDM	19.34	19.35	Front	18	1880.0	SD	2441	Aux	2.5 cm	0.063
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Muscle 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak												
Uncontrolled Exposure/General Population												

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- | | | | | | | |
|---------------------------|-------------------------------------|-----------|-------------------------------------|------------------------|--------------------------|------------|
| *Power Measured | <input checked="" type="checkbox"/> | Conducted | <input type="checkbox"/> | ERP | <input type="checkbox"/> | EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> | DASY4 | <input type="checkbox"/> | IDX | | |
| Phantom Configuration | <input type="checkbox"/> | Left Head | <input checked="" type="checkbox"/> | Flat Phantom | <input type="checkbox"/> | Right Head |
| 5. SAR Configuration | <input type="checkbox"/> | Head | <input checked="" type="checkbox"/> | Body | <input type="checkbox"/> | Hand |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> | Software | <input type="checkbox"/> | Base Station Simulator | | |
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1



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Vice President Engineering

PCTEST™ SAR REPORT		FCC CERTIFICATION			symbol	Reviewed by: Quality Manager
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SAR DATA SUMMARY

Mixture Type: 2450MHz Muscle

P/N: MC9094-SKCHJAHAA6WW


15.5 MEASUREMENT RESULTS (802.11a/ 5.2GHz, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	GSM 850/1900 (MHz)	Data Rate (Mbps)	Mem. Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)	(dBm)								
5260	52	OFDM	18.96	18.98	Front	-	24	-	-	Diversity	2.5 cm	0.089
5260	52	OFDM	18.98	18.97	Back	-	24	-	-	Diversity	2.5 cm	0.006
5260	52	OFDM	18.97	18.97	Front	-	24	-	-	Main	2.5 cm	0.093
5260	52	OFDM	18.97	18.98	Front	-	24	-	-	Aux	2.5 cm	0.109
5260	52	OFDM	18.98	18.98	Front	-	6	-	-	Aux	2.5 cm	0.097
5260	52	OFDM	18.97	18.97	Front	-	9	-	-	Aux	2.5 cm	0.103
5260	52	OFDM	18.96	18.96	Front	-	12	-	-	Aux	2.5 cm	0.112
5260	52	OFDM	18.96	18.97	Front	-	18	-	-	Aux	2.5 cm	0.128
5260	52	OFDM	18.98	18.97	Front	-	36	-	-	Aux	2.5 cm	0.122
5260	52	OFDM	18.97	18.98	Front	-	48	-	-	Aux	2.5 cm	0.108
5260	52	OFDM	18.97	18.98	Front	-	54	-	-	Aux	2.5 cm	0.101
5260	52	OFDM	18.96	18.96	Front	-	18	SD	2441	Aux	2.5 cm	0.129
5260	52	OFDM	18.97	18.98	Front	836.6	18	SD	2441	Aux	2.5 cm	0.134
5260	52	OFDM	18.97	18.97	Front	1880.0	18	SD	2441	Aux	2.5 cm	0.139
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						18Muscle						
Spatial Peak						1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population						averaged over 1 gram						

NOTES:

- The test data reported are the worst-case SAR value with the antenna position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 - Battery is fully charged for all readings. Standard Batteries are the only options.
- [‡]Power Measured Conducted ERP EIRP
4. SAR Measurement System DASY4 IDX
- Phantom Configuration Left Head Flat Phantom Right Head
5. SAR Configuration Head Body Hand
6. Test Signal Call Mode Software Base Station Simulator
- Tissue parameters and temperatures are listed on the SAR plots.
 - Liquid tissue depth is 15.1 cm. ± 0.1



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SAR DATA SUMMARY (Continued)



Mixture Type: 5800MHz Muscle
P/N: MC9094-SKCHJAHA6WW

15.6 MEASUREMENT RESULTS (802.11a/ 5.8GHz, Body SAR – w/ Holster)												
FREQUENCY		Modulation	Begin / End Average POWER [‡]		Test Position	GSM 850/1900 (MHz)	Data Rate (Mbps)	Mem. Card	BT (MHz)	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)									
5805	161	OFDM	18.48	18.47	Front	-	18	-	-	Aux	2.5 cm	0.118
5805	161	OFDM	18.47	18.46	Front	-	18	-	-	Aux	2.5 cm	0.129
5805	161	OFDM	18.49	18.48	Front	-	18	-	-	Aux	2.5 cm	0.133
5805	161	OFDM	18.48	18.48	Front	-	18	SD	2441	Aux	2.5 cm	0.138
5805	161	OFDM	18.47	18.47	Front	836.6	18	SD	2441	Aux	2.5 cm	0.142
5805	161	OFDM	18.48	18.48	Front	1880.0	18	SD	2441	Aux	2.5 cm	0.147
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Muscle 1.6 W/kg (mW/g) averaged over 1 gram							

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
 3. Battery is fully charged for all readings. Standard Batteries are the only options.
- | | | | |
|---------------------------|---|--|-------------------------------------|
| *Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY4 | <input type="checkbox"/> IDX | |
| Phantom Configuration | <input type="checkbox"/> Left Head | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Right Head |
| 5. SAR Configuration | <input type="checkbox"/> Head | <input checked="" type="checkbox"/> Body | <input type="checkbox"/> Hand |
| 6. Test Signal Call Mode | <input checked="" type="checkbox"/> Software | <input type="checkbox"/> Base Station Simulator | |
7. Tissue parameters and temperatures are listed on the SAR plots.
 8. Liquid tissue depth is 15.1 cm. ± 0.1


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SAR DATA SUMMARY (Continued)

Mixture Type: 5300MHz Muscle
P/N: MC9094-SKCHJAHA6WW

15.7 MEASUREMENT RESULTS (Bluetooth, Body SAR – w/ Holster)											
FREQUENCY		Modulation	Begin / End Average POWER [†]		Test Position	GSM 850/1900 (MHz)	Data Rate (Mbps)	Mem. Card	Antenna	Separation Distance (cm)	SAR (W/kg)
MHz	Ch.		(dBm)								
2441	39	FHSS	-0.17	-0.18	Front		-		Fixed	2.5 cm	0.003
2441	39	FHSS	-0.16	-0.17	Front		SD	-	Fixed	2.5 cm	0.003
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Muscle						
Spatial Peak					1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population					averaged over 1 gram						

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated including all data rates (Mbps), and worst-case results are reported.
3. Battery is fully charged for all readings. Standard Batteries are the only options.

*Power Measured	<input checked="" type="checkbox"/> Conducted	<input type="checkbox"/> ERP	<input type="checkbox"/> EIRP
-----------------	---	------------------------------	-------------------------------
4. SAR Measurement System


<input checked="" type="checkbox"/> DASY4	<input type="checkbox"/> IDX	
Phantom Configuration	<input type="checkbox"/> Left Head	<input checked="" type="checkbox"/> Flat Phantom
		<input type="checkbox"/> Right Head
5. SAR Configuration

<input type="checkbox"/> Head	<input checked="" type="checkbox"/> Body	<input type="checkbox"/> Hand
-------------------------------	--	-------------------------------
6. Test Signal Call Mode

<input checked="" type="checkbox"/> Software	<input type="checkbox"/> Base Station Simulator
--	---
7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1



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16. SAR TEST EQUIPMENT


Equipment Calibration

Table 15.1 Test Equipment Calibration

EQUIPMENT SPECIFICATIONS			
Type	Calibration Date	Serial Number	
Stäubli Robot RX60L	October 2006	599131-01	
Stäubli Robot Controller	October 2006	PCT592	
Stäubli Teach Pendant (Joystick)	October 2006	3323-00161	
Micron Computer, 450 MHz Pentium III, Windows NT	October 2006	PCT577	
SPEAG EDC3	October 2006	321	
SPEAG DAE3	January 2006	455	
SPEAG E-Field Probe ES3DV2	September 2005	3022	
SPEAG Dummy Probe	October 2006	PCT583	
SPEAG SAM Twin Phantom V4.0	October 2006	PCT666	
SPEAG Light Alignment Sensor	October 2006	205	
PCTEST Validation Dipole D300V2	September 2006	PCT301	
SPEAG Validation Dipole D835V2	January 2005	PCT512	
SPEAG Validation Dipole D1900V2	January 2005	PCT613	
Brain Equivalent Matter (300MHz)	May/ July/ November 2005	PCTBEM601	
Brain Equivalent Matter (835MHz)	May/ July/ November 2005	PCTBEM101	
Brain Equivalent Matter (1900MHz)	May/ July/ November 2005	PCTBEM301	
Muscle Equivalent Matter (300MHz)	May/ July/ November 2005	PCTMEM701	
Muscle Equivalent Matter (835MHz)	May/ July/ November 2005	PCTMEM201	
Muscle Equivalent Matter (1900MHz)	May/ July/ November 2005	PCTMEM401	
Microwave Amp. Model: 5S1G4, (800MHz - 4.2GHz)	January 2005	22332	
Gigatronics 8651A Power Meter	January 2005	1835299	
HP-8648D (9kHz ~ 4GHz) Signal Generator	January 2005	PCT530	
Amplifier Research 5S1G4 Power Amp	January 2005	PCT540	
HP-8753E (30kHz ~ 3GHz) Network Analyzer	January 2005	PCT552	
HP85070B Dielectric Probe Kit	January 2005	PCT501	
Ambient Noise/Reflection, etc.	Anechoic Room	January 2005	PCT01

NOTE:

The E-field probe was calibrated by SPEAG, by waveguide technique procedure. Dipole Validation measurement is performed by PCTEST Lab. before each test. The brain simulating material is calibrated by PCTEST using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.


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17. CONCLUSION

Measurement Conclusion


The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC. These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The tested device complies with the requirements in respect to all parameters subject to the test. The test results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because innumerable factors may interact to determine the specific biological outcome of an exposure to electromagnetic fields, any protection guide shall consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.[3]

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