

SAR DATA SUMMARY

Mixture Type: 835MHz Muscle

14.5 MEASUREMENT RESULTS (CDMA Body SAR w/ Panasonic Laptop)								
FREQUENCY		Modulation	Begin / End POWER [†]			Separation Distance (cm) ^{‡‡}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Up	0.550
824.70	1013	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Down	0.497
836.52	0384	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Up	0.241
836.52	0384	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Down	0.313
848.31	0777	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Up	0.501
848.31	0777	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Down	0.494
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 | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY3 | <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"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator | |
| 7. ^{‡‡} Test Configuration | <input type="checkbox"/> With Holster | <input checked="" type="checkbox"/> Without Holster | |
8. ^{‡‡‡}In the touch position, the Panasonic laptop provided 1.8 cm. spacing between the antenna and the flat phantom.
9. Tissue parameters and temperatures are listed on the SAR plots.
10. Both sides of the phone were tested and the worst-case side is reported.
11. Liquid tissue depth is 15.1 cm. ± 0.1


 Alfred Cirwithian
 Vice President Engineering



**Figure 14.5 Body SAR Test Setup
-- Lap Configuration --**

PCTEST SAR REPORT	 FCC CERTIFICATION			Reviewed by: Quality Manager
SAR Filename: SAR-221125617.PNF	Test Dates: Nov. 25-27, 2002	EUT TYPE: Dual-Band CDMA PCMCIA Modem Card	FCC ID: PNF-PC3220P	Page 22 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

14.6 MEASUREMENT RESULTS (CDMA Body SAR w/ Panasonic Laptop)								
FREQUENCY		Modulation	Begin / End POWER [†]			Separation Distance (cm) ^{††}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)	Battery				
824.70	1013	CDMA	23.5	23.5	Standard	1.5	Up	0.120
824.70	1013	CDMA	23.5	23.5	Standard	1.5	Down	0.110
836.52	0384	CDMA	23.5	23.5	Standard	1.5	Up	0.143
836.52	0384	CDMA	23.5	23.5	Standard	1.5	Down	0.094
848.31	0777	CDMA	23.5	23.5	Standard	1.5	Up	0.118
848.31	0777	CDMA	23.5	23.5	Standard	1.5	Down	0.117
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 | <input type="checkbox"/> | EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> | DASY3 | <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"/> | Manu. Test Codes | <input type="checkbox"/> | Base Station Simulator | | |
| 7. ^{††} Test Configuration | <input type="checkbox"/> | With Holster | <input checked="" type="checkbox"/> | Without Holster | | |
8. Tissue parameters and temperatures are listed on the SAR plots.
 9. Both sides of the phone were tested and the worst-case side is reported.
 10. Liquid tissue depth is 15.1 cm. ± 0.1

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Figure 14.6 Body SAR Test Setup -- Bystander Configuration --

PCTEST SAR REPORT	FCC CERTIFICATION				Reviewed by: Quality Manager
SAR Filename: SAR-221125617.PNF	Test Dates: Nov. 25-27, 2002	EUT TYPE: Dual-Band CDMA PCMCIA Modem Card	FCC ID: PNF-PC3220P	Page 23 of 32	

SAR DATA SUMMARY

Mixture Type: 835MHz Muscle

14.9 MEASUREMENT RESULTS (CDMA Body SAR w/ Winbook Laptop)								
FREQUENCY		Modulation	Begin / End POWER [†]			Separation Distance (cm) ^{‡‡}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Up	0.393
824.70	1013	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Down	0.174
836.52	0384	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Up	0.369
836.52	0384	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Down	0.138
848.31	0777	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Up	0.383
848.31	0777	CDMA	23.5	23.5	Standard	Touching ^{‡‡‡}	Down	0.209
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 | <input type="checkbox"/> EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY3 | <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"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator | |
| 7. ^{‡‡} Test Configuration | <input type="checkbox"/> With Holster | <input checked="" type="checkbox"/> Without Holster | |
8. ^{‡‡‡}In the touch position, the Winbook laptop provided 2.5 cm. spacing between the antenna and the flat phantom.
 9. Tissue parameters and temperatures are listed on the SAR plots.
 10. Both sides of the phone were tested and the worst-case side is reported.
 11. Liquid tissue depth is 15.1 cm. ± 0.1


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 Vice President Engineering



Figure 14.9 Body SAR Test Setup -- Lap Configuration --

PCTEST SAR REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR-221125617.PNF	Test Dates: Nov. 25-27, 2002	EUT TYPE: Dual-Band CDMA PCMCIA Modem Card	FCC ID: PNF-PC3220P	Page 26 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

14.10 MEASUREMENT RESULTS (CDMA Body SAR w/ Winbook Laptop)								
FREQUENCY		Modulation	Begin / End POWER [†]			Separation Distance (cm) ^{††}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	23.5	23.5	Standard	1.5	Up	0.152
824.70	1013	CDMA	23.5	23.5	Standard	1.5	Down	0.027
836.52	0384	CDMA	23.5	23.5	Standard	1.5	Up	0.161
836.52	0384	CDMA	23.5	23.5	Standard	1.5	Down	0.027
848.31	0777	CDMA	23.5	23.5	Standard	1.5	Up	0.166
848.31	0777	CDMA	23.5	23.5	Standard	1.5	Down	0.030
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 | <input type="checkbox"/> | EIRP |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> | DASY3 | <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"/> | Manu. Test Codes | <input type="checkbox"/> | Base Station Simulator | | |
| 7. ^{††} Test Configuration | <input type="checkbox"/> | With Holster | <input checked="" type="checkbox"/> | Without Holster | | |
8. Tissue parameters and temperatures are listed on the SAR plots.
 9. Both sides of the phone were tested and the worst-case side is reported.
 10. Liquid tissue depth is 15.1 cm. ± 0.1

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**Figure 14.10 Body SAR Test Setup
-- Bystander Configuration --**

PCTEST SAR REPORT				Reviewed by: Quality Manager
SAR Filename: SAR-221125617.PNF	Test Dates: Nov. 25-27, 2002	EUT TYPE: Dual-Band CDMA PCMCIA Modem Card	FCC ID: PNF-PC3220P	Page 27 of 32