

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	22.3
		Relative HUMIDITY (%)	60.5
		Atmospheric PRESSURE (kPa)	99.7
Mixture Type:	835MHz Brain		
Dielectric Constant:	41.6	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	0.90	Measured Tissue TEMPERATURE (°C)	22.2

13.2 Measurement Results (AMPS Left Head SAR - Touch)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.5	26.5	Extended	Cheek / Touch	In	0.938
824.04	0991	AMPS	26.5	26.5	Extended	Cheek / Touch	Out	1.070
836.49	0383	AMPS	26.5	26.5	Extended	Cheek / Touch	In	1.190
836.49	0383	AMPS	26.5	26.5	Extended	Cheek / Touch	Out	0.996
848.97	0799	AMPS	26.5	26.5	Extended	Cheek / Touch	In	1.340
848.97	0799	AMPS	26.5	26.5	Extended	Cheek / Touch	Out	0.971
848.97	0799	AMPS	26.5	26.5	Standard	Cheek / Touch	In	1.200
848.97	0799	AMPS	26.5	26.5	Standard	Cheek / Touch	Out	0.891
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☒ Left Head ☐ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
President



Figure 18. Left Head SAR Test Setup
-- Check / Touch Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	22.3
		Relative HUMIDITY (%)	60.5
		Atmospheric PRESSURE (kPa)	99.7
Mixture Type:	835MHz Brain		
Dielectric Constant:	41.6	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	0.90	Measured Tissue TEMPERATURE (°C)	22.2

13.3 Measurement Results (AMPS Left Head SAR - Tilt)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.5	26.5	Extended	Ear / 15° Tilt	In	0.519
824.04	0991	AMPS	26.5	26.5	Extended	Ear / 15° Tilt	Out	0.889
836.49	0383	AMPS	26.5	26.5	Extended	Ear / 15° Tilt	In	0.574
836.49	0383	AMPS	26.5	26.5	Extended	Ear / 15° Tilt	Out	0.621
848.97	0799	AMPS	26.5	26.5	Extended	Ear / 15° Tilt	In	0.707
848.97	0799	AMPS	26.5	26.5	Extended	Ear / 15° Tilt	Out	0.674
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☒ Left Head ☐ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
President



Figure 19. Left Head SAR Test Setup
-- Ear / Tilt Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	22.3
		Relative HUMIDITY (%)	60.5
		Atmospheric PRESSURE (kPa)	99.7
Mixture Type:	835MHz Brain		
Dielectric Constant:	41.6	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	0.90	Measured Tissue TEMPERATURE (°C)	22.2

13.4 Measurement Results (AMPS Right Head SAR - Touch)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.5	26.5	Standard	Cheek / Touch	In	0.666
824.04	0991	AMPS	26.5	26.5	Standard	Cheek / Touch	Out	0.841
836.49	0383	AMPS	26.5	26.5	Standard	Cheek / Touch	In	1.000
836.49	0383	AMPS	26.5	26.5	Standard	Cheek / Touch	Out	0.720
848.97	0799	AMPS	26.5	26.5	Standard	Cheek / Touch	In	1.130
848.97	0799	AMPS	26.5	26.5	Standard	Cheek / Touch	Out	0.730
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☐ Left Head ☒ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
President



Figure 20. Right Head SAR Test Setup
-- Check / Touch Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	22.3
		Relative HUMIDITY (%)	60.5
		Atmospheric PRESSURE (kPa)	99.7
Mixture Type:	835MHz Brain		
Dielectric Constant:	41.5	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	0.90	Measured Tissue TEMPERATURE (°C)	22.2

13.5 Measurement Results (AMPS Right Head SAR - Tilt)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.5	26.5	Standard	Ear / 15° Tilt	In	0.418
824.04	0991	AMPS	26.5	26.5	Standard	Ear / 15° Tilt	Out	0.713
836.49	0383	AMPS	26.5	26.5	Standard	Ear / 15° Tilt	In	0.424
836.49	0383	AMPS	26.5	26.5	Standard	Ear / 15° Tilt	Out	0.525
848.97	0799	AMPS	26.5	26.5	Standard	Ear / 15° Tilt	In	0.639
848.97	0799	AMPS	26.5	26.5	Standard	Ear / 15° Tilt	Out	0.589
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☐ Left Head ☒ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
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Figure 21. Right Head SAR Test Setup
-- Ear / Tilt Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	21.9
		Relative HUMIDITY (%)	60.1
		Atmospheric PRESSURE (kPa)	99.5
Mixture Type:	835MHz Brain		
Dielectric Constant:	40.5	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	1.62	Measured Tissue TEMPERATURE (°C)	21.7

13.6 Measurement Results (PCS CDMA Left Head SAR - Touch)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Extended	Cheek / Touch	In	1.260
1851.25	0025	CDMA	25.1	25.0	Extended	Cheek / Touch	Out	0.685
1880.00	0600	CDMA	25.1	25.0	Extended	Cheek / Touch	In	1.330
1880.00	0600	CDMA	25.1	25.0	Extended	Cheek / Touch	Out	0.802
1908.75	1175	CDMA	25.1	25.0	Extended	Cheek / Touch	In	0.957
1908.75	1175	CDMA	25.1	25.0	Extended	Cheek / Touch	Out	0.579
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	In	1.230
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.580
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☒ Left Head ☐ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


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Figure 22. Left Head SAR Test Setup
-- Check / Touch Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	21.9
		Relative HUMIDITY (%)	60.1
		Atmospheric PRESSURE (kPa)	99.5
Mixture Type:	1900MHz Brain		
Dielectric Constant:	40.0	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	1.62	Measured Tissue TEMPERATURE (°C)	21.7

13.7 Measurement Results (PCS CDMA Left Head SAR - Tilt)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	In	0.764
1851.25	0025	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	Out	0.336
1880.00	0600	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	In	0.711
1880.00	0600	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	Out	0.255
1908.75	1175	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	In	0.547
1908.75	1175	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	Out	0.219
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☒ Left Head ☐ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
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Figure 24. Left Head SAR Test Setup
-- Ear / Tilt Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	21.9
		Relative HUMIDITY (%)	60.1
		Atmospheric PRESSURE (kPa)	99.5
Mixture Type:	1900MHz Brain		
Dielectric Constant:	40.0	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	1.62	Measured Tissue TEMPERATURE (°C)	21.7

13.8 Measurement Results (PCS CDMA Right Head SAR - Touch)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.841
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.422
1880.00	0600	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.966
1880.00	0600	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.527
1908.75	1175	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.699
1908.75	1175	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.375
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☐ Left Head ☒ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
President



Figure 25. Right Head SAR Test Setup
-- Check / Touch Position --

13.1 SAR TEST DATA SUMMARY

		Ambient TEMPERATURE (°C)	21.9
		Relative HUMIDITY (%)	60.1
		Atmospheric PRESSURE (kPa)	99.5
Mixture Type:	1900MHz Brain		
Dielectric Constant:	40.0	Measured Depth of Simulating Tissue:	15.0 cm
Conductivity:	1.60	Measured Tissue TEMPERATURE (°C)	21.7

13.9 Measurement Results (PCS CDMA Right Head SAR - Tilt)

FREQUENCY		Modulation	Begin / End POWER*			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	In	0.580
1851.25	0025	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	Out	0.190
1880.00	0600	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	In	0.622
1880.00	0600	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	Out	0.194
1908.75	1175	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	In	0.419
1908.75	1175	CDMA	25.1	25.0	Extended	Ear / 15° Tilt	Out	0.161
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated and the worst-case are reported.
- *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
Battery condition is fully charged for all readings.
- SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☐ Left Head ☒ Right Head
- SAR Configuration ☒ Head ☐ Body ☐ Hand


Randy Ortanez
President



Figure 26. Right Head SAR Test Setup
-- Ear / Tilt Position --

13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C) 22.1
Relative HUMIDITY (%) 60.0
Atmospheric PRESSURE (kPa) 99.2

Mixture Type: 835MHz Muscle

Dielectric Constant: 55.3

Measured Depth of Simulating Tissue: 15.5 cm

Conductivity: 0.96

Measured Tissue TEMPERATURE (°C) 22.0

13.10 Measurement Results (AMPS Body SAR w/o Holster)

FREQUENCY		Modulation	POWER*			Separation Distance (cm)**	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.6	26.5	Standard	2.0 [without Holster]	In	0.310
824.04	0991	AMPS	26.6	26.5	Standard	2.0 [without Holster]	Out	0.599
836.49	0383	AMPS	26.6	26.5	Standard	2.0 [without Holster]	In	0.327
836.49	0383	AMPS	26.6	26.5	Standard	2.0 [without Holster]	Out	0.441
848.97	0799	AMPS	26.6	26.5	Standard	2.0 [without Holster]	In	0.463
848.97	0799	AMPS	26.6	26.5	Standard	2.0 [without Holster]	Out	0.471
824.04	0991	AMPS	26.6	26.5	Extended	2.0 [without Holster]	In	0.298
824.04	0991	AMPS	26.6	26.5	Extended	2.0 [without Holster]	Out	0.482
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- All modes of operation were investigated and the worst-case are reported.
 - Battery condition is fully charged for all readings.
 - * Power Measured ☒ Conducted ☐ EIRP ☐ ERP
 - SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☒ Flat Phantom
 - SAR Configuration ☐ Head ☒ Body ☐ Hand
 - ** Test Configuration ☐ Holster ☒ Without Holster
- Spacing = 2.0cm from flat phantom to the back top & base of phone, 1.7cm from flat phantom to retracted antenna, & 1.0cm from flat phantom to extended antenna. The worst-case spacing of 2.0cm is noted and specified in the User's Manual on the RF Exposure Warning page.


Randy Ortanez
President



Figure 27. Body SAR Test Setup

13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C) 22.1
Relative HUMIDITY (%) 60.0
Atmospheric PRESSURE (kPa) 99.2

Mixture Type: 1900MHz Muscle

Dielectric Constant: 53.5

Measured Depth of Simulating Tissue: 15.5 cm

Conductivity: 1.52

Measured Tissue TEMPERATURE (°C) 22.0

13.11 Measurement Results (PCS CDMA Body SAR w/o Holster)

FREQUENCY		Modulation	POWER*			Separation Distance (cm)**	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Extended	2.0 [without Holster]	In	0.288
1851.25	0025	CDMA	25.1	25.0	Extended	2.0 [without Holster]	Out	0.727
1880.00	0600	CDMA	25.1	25.0	Extended	2.0 [without Holster]	In	0.238
1880.00	0600	CDMA	25.1	25.0	Extended	2.0 [without Holster]	Out	0.406
1908.75	1175	CDMA	25.1	25.0	Extended	2.0 [without Holster]	In	0.211
1908.75	1175	CDMA	25.1	25.0	Extended	2.0 [without Holster]	Out	0.220
1851.25	0025	CDMA	25.1	25.0	Standard	2.0 [without Holster]	In	0.263
1851.25	0025	CDMA	25.1	25.0	Standard	2.0 [without Holster]	Out	0.718
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- All modes of operation were investigated and the worst-case are reported.
 - Battery condition is fully charged for all readings.
 - * Power Measured ☒ Conducted ☐ EIRP ☐ ERP
 - SAR Measurement System ☒ SPEAG ☐ IDX
Phantom configuration ☒ Flat Phantom
 - SAR Configuration ☐ Head ☒ Body ☐ Hand
 - ** Test Configuration ☐ Holster ☒ Without Holster
- Spacing = 2.0cm from flat phantom to the back top & base of phone, 1.7cm from flat phantom to retracted antenna, & 1.0cm from flat phantom to extended antenna. The worst-case spacing of 2.0cm is noted and specified in the User's Manual on the RF Exposure Warning page.


Randy Ortanez
President



Figure 29. Body SAR Test Setup