

## SAR DATA SUMMARY

MEASUREMENT RESULTS (FHSS Hand SAR – Control Side)								
FREQUENCY		Modulation	Begin / End POWER <sup>‡</sup>		Separation Distance (cm)	Antenna Position	SAR (W/kg)	
MHz	Ch.		(W)					Battery
2402	01	FHSS	0.112	0.112	STANDARD	TOUCH	FIXED	1.53
2440	45	FHSS	0.112	0.112	STANDARD	TOUCH	FIXED	1.41
2480	90	FHSS	0.112	0.112	STANDARD	TOUCH	FIXED	0.92
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b> <b>Spatial Peak</b> <b>Uncontrolled Exposure/General Population</b>						<b>Hand</b> <b>4.0 W/kg (mW/g)</b> averaged over 10 grams		

**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 worst-case results are reported.
- Battery is fully charged for all readings.

- |                           |   |  |  |
|---------------------------|---|--|--|
| ‡Power Measured           | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP                     | <input type="checkbox"/> EIRP            |
| 4. SAR Measurement System | <input type="checkbox"/> DASY3                | <input checked="" type="checkbox"/> IDX          | <input type="checkbox"/>                 |
| Phantom Configuration     | <input type="checkbox"/> Right Head           | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Left Head       |
| 5. SAR Configuration      | <input type="checkbox"/> Head                 | <input type="checkbox"/> Body                    | <input checked="" type="checkbox"/> Hand |
| 6. Test Signal Call Mode  | <input checked="" type="checkbox"/> Software  | <input type="checkbox"/> Base Station Simulator  |  |

PCTEST SAR TEST REPORT		PCTEST SAR EVALUATION REPORT DATA		
Company Name:	FCC ID:	Model:		
SYMBOL	H9PLA3021-100	Encore 3N	CRN23421	EA87974

SAR Data Report 02050110

Start : 1-May-02 10:35:19 am  
End : 1-May-02 10:41:28 am  
Code Version : 4.08  
Robot Version: 4.08

Product Data:

Type : ZEBRA  
Model Number : ENCORE-3N  
Frequency : 2402 MHz  
Transmit Pwr : 0.112 W  
Antenna Posn. : Internal

Measurement Data:

Phantom Name : SAM-FLAT  
Phantom Type : Uniphantom  
Tissue Type : Muscle  
Tissue Dielectric : 52.000  
Tissue Conductivity : 1.920  
Tissue Density : 1.000  
Robot Name : CRS

Probe Data:

Probe Name : PCT25  
Probe Type : E Fld Triangle  
Frequency : 2450 MHz  
Tissue Type : Muscle  
Calibrated Dielectric : 52.200  
Calibrated Conductivity : 1.950  
Calibrated Density : 1.000  
Probe Offset : 2.400 mm  
Conversion Factor : 16.500  
Probe Sensitivity : 0.753 0.726 0.683 mV/(mW/cm<sup>2</sup>)  
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec  
Count: 100 Samples  
NIDAQ Gain: 5

Comments:

FHSS MODE  
HAND SAR (top)  
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.0 'C

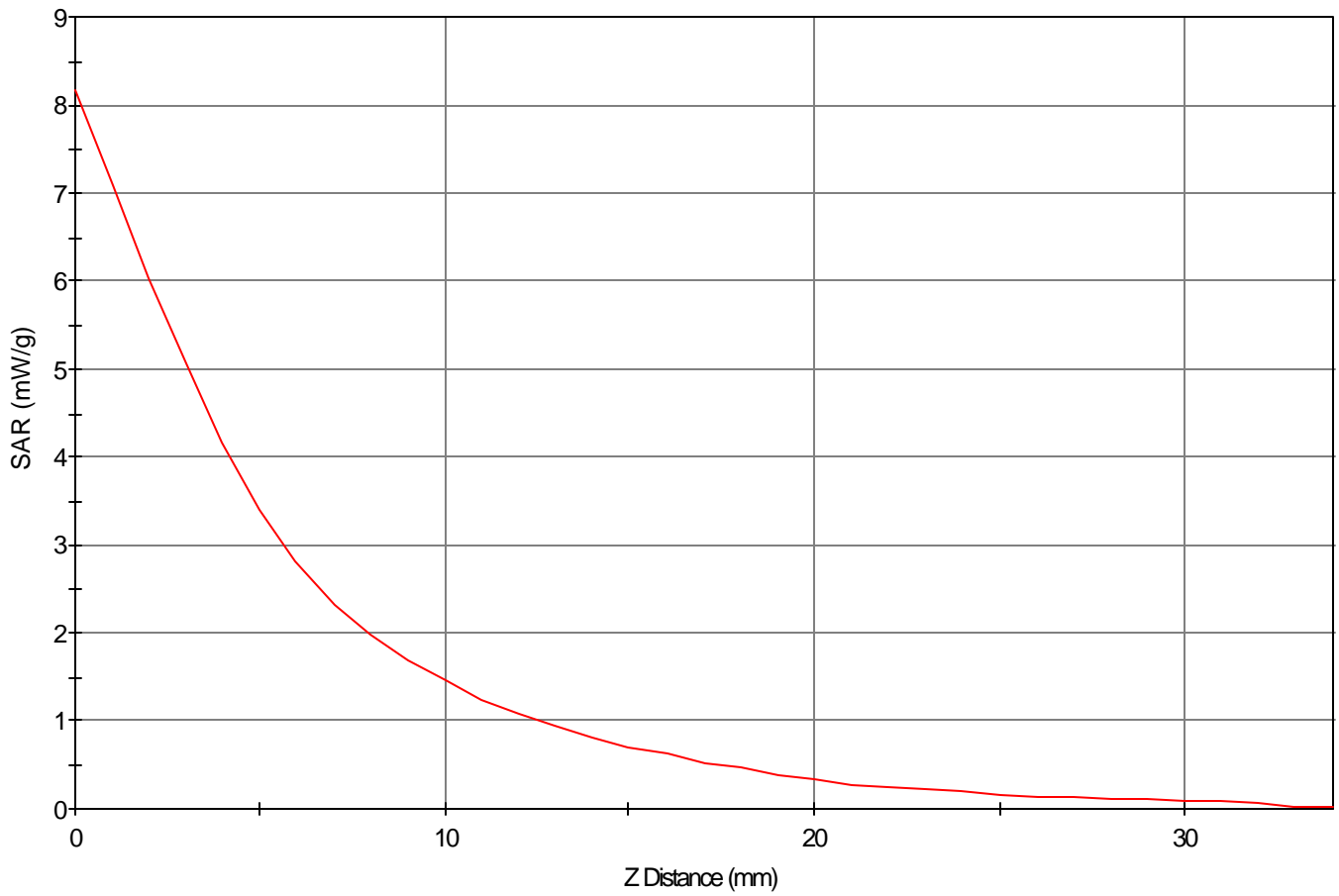
Area Scan - Max Peak SAR Value at x=-5.0 y=10.0 = 3.59 W/kg

Zoom Scan - Max Peak SAR Value at x=-5.0 y=10.0 z=0.0 = 8.16 W/kg

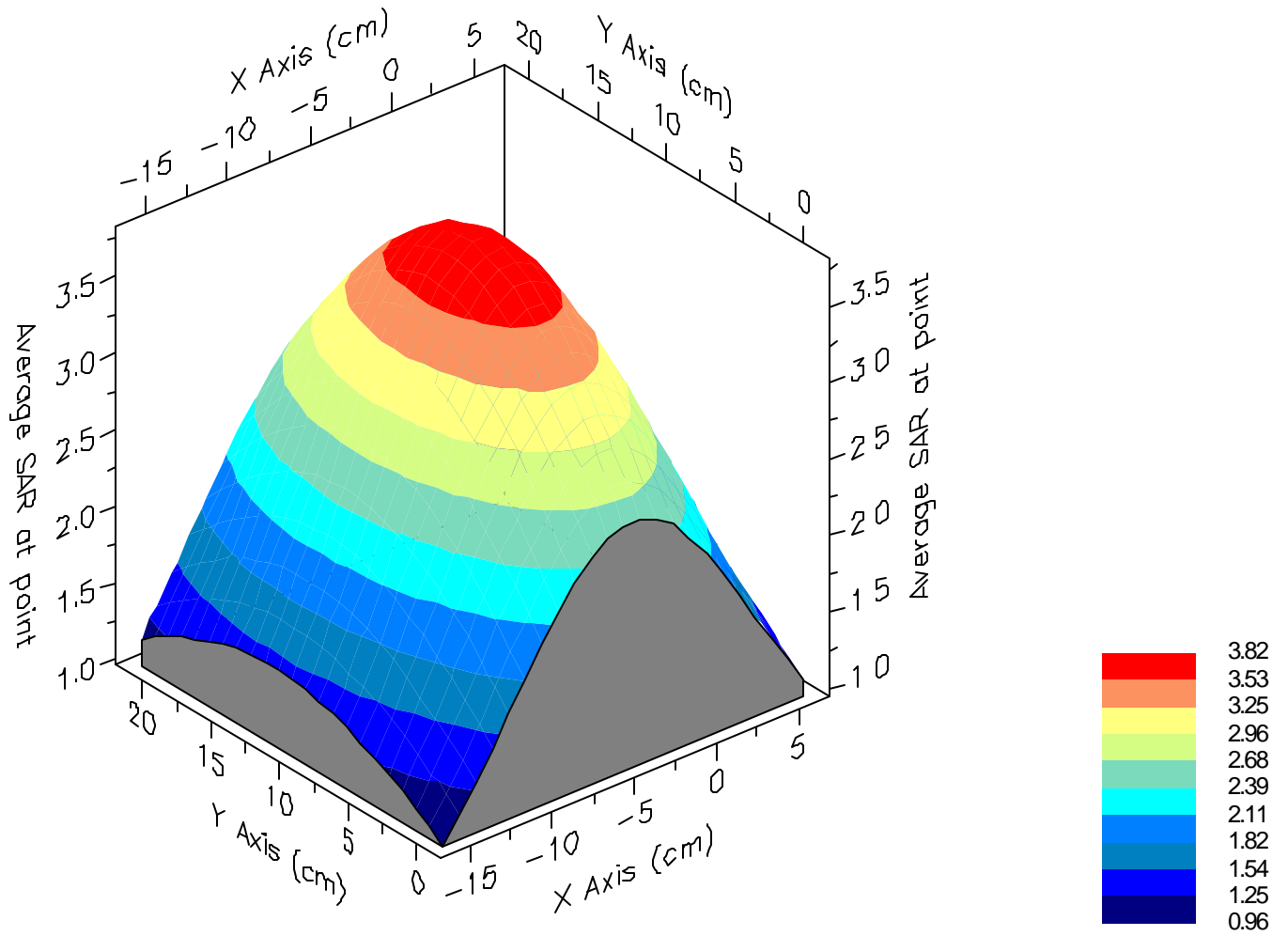
Max 1g SAR at x=-4.0 y=11.0 z=0.0 = 3.82 W/kg

Max 10g SAR at x=-5.0 y=11.0 z=0.0 = 1.53 W/kg

SAR - Z Axis  
at Hotspot x:-5.0 y:10.0



### 1g SAR Values





SAR Data Report 02050116

Start : 1-May-02 12:07:35 pm  
End : 1-May-02 12:13:45 pm  
Code Version : 4.08  
Robot Version: 4.08

Product Data:

Type : ZEBRA  
Model Number : ENCORE-3N  
Frequency : 2440 MHz  
Transmit Pwr : 0.112 W  
Antenna Posn. : Internal

Measurement Data:

Phantom Name : SAM-FLAT  
Phantom Type : Uniphantom  
Tissue Type : Muscle  
Tissue Dielectric : 52.000  
Tissue Conductivity : 1.920  
Tissue Density : 1.000  
Robot Name : CRS

Probe Data:

Probe Name : PCT25  
Probe Type : E Fld Triangle  
Frequency : 2450 MHz  
Tissue Type : Muscle  
Calibrated Dielectric : 52.200  
Calibrated Conductivity : 1.950  
Calibrated Density : 1.000  
Probe Offset : 2.400 mm  
Conversion Factor : 16.500  
Probe Sensitivity : 0.753 0.726 0.683 mV/(mW/cm<sup>2</sup>)  
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec  
Count: 100 Samples  
NIDAQ Gain: 5

Comments:

FHSS MODE  
HAND SAR  
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.0 'C

Area Scan - Max Peak SAR Value at x=-5.0 y=13.0 = 3.46 W/kg

Zoom Scan - Max Peak SAR Value at x=-5.0 y=13.0 z=0.0 = 8.37 W/kg

Max 1g SAR at x=-4.0 y=14.0 z=0.0 = 3.73 W/kg

Max 10g SAR at x=-4.0 y=14.0 z=0.0 = 1.41 W/kg

SAR Data Report 02050117

Start : 1-May-02 12:16:04 pm  
End : 1-May-02 12:22:15 pm  
Code Version : 4.08  
Robot Version: 4.08

Product Data:

Type : ZEBRA  
Model Number : ENCORE-3N  
Frequency : 2480 MHz  
Transmit Pwr : 0.112 W  
Antenna Posn. : Internal

Measurement Data:

Phantom Name : SAM-FLAT  
Phantom Type : Uniphantom  
Tissue Type : Muscle  
Tissue Dielectric : 52.000  
Tissue Conductivity : 1.920  
Tissue Density : 1.000  
Robot Name : CRS

Probe Data:

Probe Name : PCT25  
Probe Type : E Fld Triangle  
Frequency : 2450 MHz  
Tissue Type : Muscle  
Calibrated Dielectric : 52.200  
Calibrated Conductivity : 1.950  
Calibrated Density : 1.000  
Probe Offset : 2.400 mm  
Conversion Factor : 16.500  
Probe Sensitivity : 0.753 0.726 0.683 mV/(mW/cm<sup>2</sup>)  
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec  
Count: 100 Samples  
NIDAQ Gain: 5

Comments:

FHSS MODE  
HAND SAR  
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.0 'C

Area Scan - Max Peak SAR Value at x=-5.0 y=13.0 = 2.24 W/kg

Zoom Scan - Max Peak SAR Value at x=-5.0 y=13.0 z=0.0 = 5.64 W/kg

Max 1g SAR at x=-5.0 y=14.0 z=0.0 = 2.46 W/kg


Max 10g SAR at x=-5.0 y=13.0 z=0.0 = 0.92 W/kg

## SAR DATA SUMMARY

MEASUREMENT RESULTS (FHSS Hand SAR – User Control Side)								
FREQUENCY		Modulation	Begin / End POWER <sup>‡</sup>		Separation Distance (cm)	Antenna Position	SAR (W/kg)	
MHz	Ch.		(W)					Battery
2402	1	FHSS	0.112	0.112	STANDARD	TOUCH	FIXED	1.53
2440	45	FHSS	0.112	0.112	STANDARD	TOUCH	FIXED	1.41
2480	90	FHSS	0.112	0.112	STANDARD	TOUCH	FIXED	0.92
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b> <b>Spatial Peak</b> <b>Uncontrolled Exposure/General Population</b>						<b>Hand</b> <b>4.0 W/kg (mW/g)</b> averaged over 10 grams		

**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 worst-case results are reported.
  - Battery is fully charged for all readings.
- <sup>‡</sup>Power Measured
- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP                     | <input type="checkbox"/> EIRP            |
| <input type="checkbox"/> DASY3                | <input checked="" type="checkbox"/> IDX          | <input type="checkbox"/>                 |
| <input type="checkbox"/> Right Head           | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Left Head       |
| <input type="checkbox"/> Head                 | <input checked="" type="checkbox"/> Body         | <input checked="" type="checkbox"/> Hand |
| <input checked="" type="checkbox"/> Software  | <input type="checkbox"/> Base Station Simulator  |  |
- SAR Measurement System Phantom Configuration
  - SAR Configuration
  - Test Signal Call Mode

PCTEST SAR TEST REPORT		 SAR EVALUATION REPORT DATA		EA487974
Company Name:	FCC ID:	Model:		CRN23421
SYMBOL		Encore 3N		



SAR Data Report 02050110

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Robot Version: 4.08

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Model Number : ENCORE-3N  
Frequency : 2402 MHz  
Transmit Pwr : 0.112 W  
Antenna Posn. : Internal

Measurement Data:

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Tissue Density : 1.000  
Robot Name : CRS

Probe Data:

Probe Name : PCT25  
Probe Type : E Fld Triangle  
Frequency : 2450 MHz  
Tissue Type : Muscle  
Calibrated Dielectric : 52.200  
Calibrated Conductivity : 1.950  
Calibrated Density : 1.000  
Probe Offset : 2.400 mm  
Conversion Factor : 16.500  
Probe Sensitivity : 0.753 0.726 0.683 mV/(mW/cm<sup>2</sup>)  
Amplifier Gains : 20.00 20.00 20.00

Sample:

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Comments:

FHSS MODE  
HAND SAR (top)  
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.0 'C

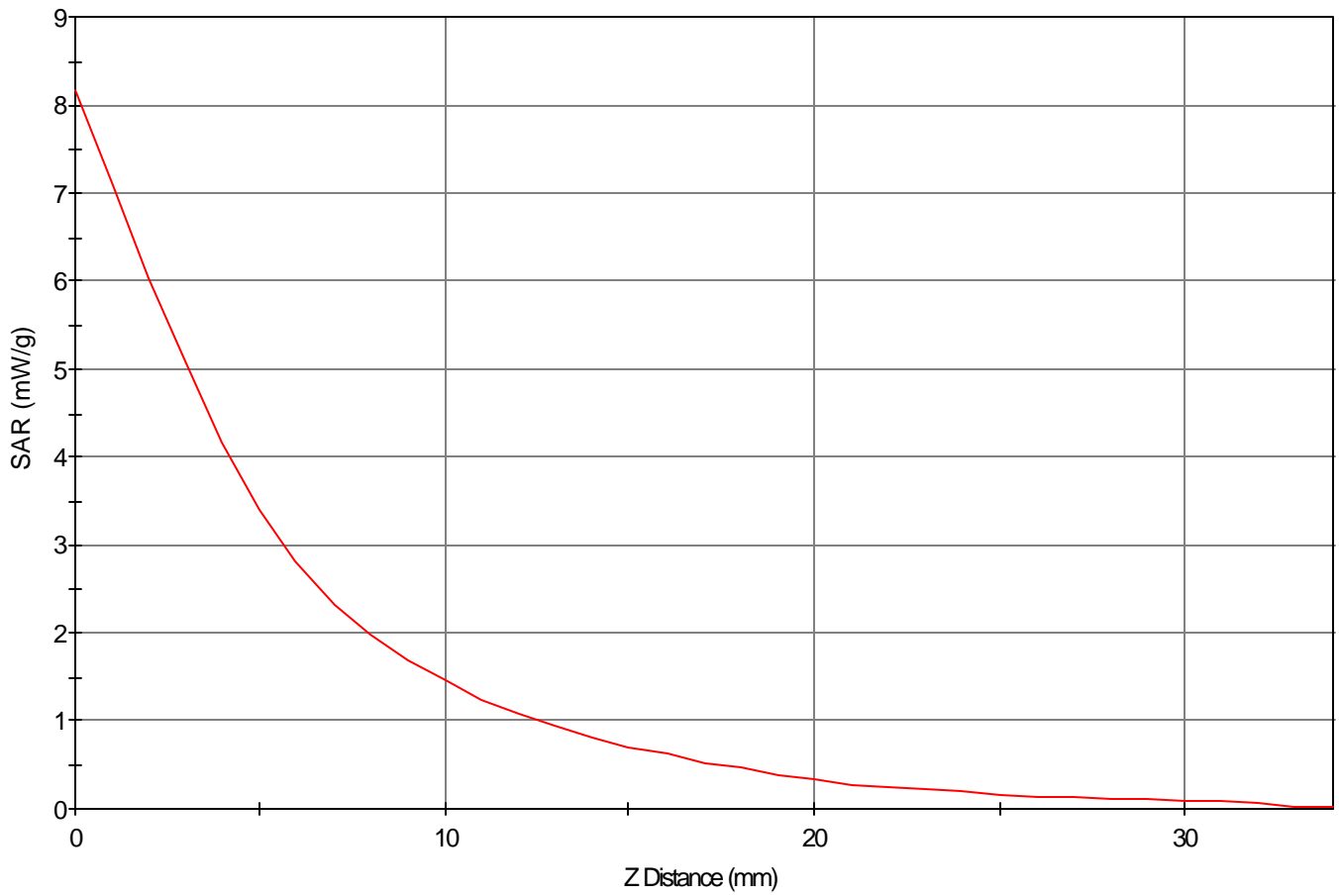
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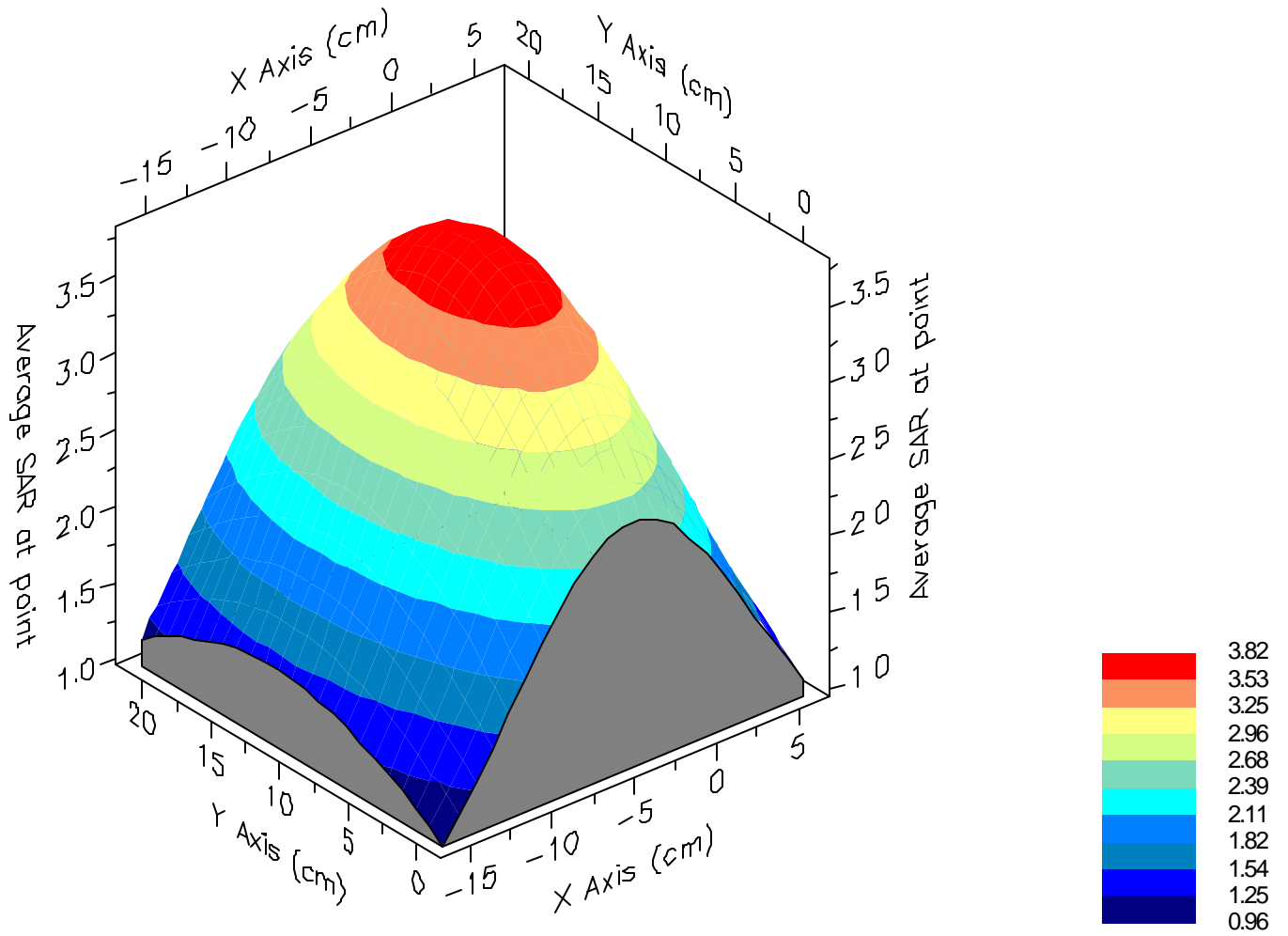
Max 1g SAR at x=-4.0 y=11.0 z=0.0 = 3.82 W/kg

Max 10g SAR at x=-5.0 y=11.0 z=0.0 = 1.53 W/kg

SAR - Z Axis  
at Hotspot x:-5.0 y:10.0



### 1g SAR Values





SAR Data Report 02050116

Start : 1-May-02 12:07:35 pm  
End : 1-May-02 12:13:45 pm  
Code Version : 4.08  
Robot Version: 4.08

Product Data:

Type : ZEBRA  
Model Number : ENCORE-3N  
Frequency : 2440 MHz  
Transmit Pwr : 0.112 W  
Antenna Posn. : Internal

Measurement Data:

Phantom Name : SAM-FLAT  
Phantom Type : Uniphantom  
Tissue Type : Muscle  
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Tissue Density : 1.000  
Robot Name : CRS

Probe Data:

Probe Name : PCT25  
Probe Type : E Fld Triangle  
Frequency : 2450 MHz  
Tissue Type : Muscle  
Calibrated Dielectric : 52.200  
Calibrated Conductivity : 1.950  
Calibrated Density : 1.000  
Probe Offset : 2.400 mm  
Conversion Factor : 16.500  
Probe Sensitivity : 0.753 0.726 0.683 mV/(mW/cm<sup>2</sup>)  
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec  
Count: 100 Samples  
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Comments:

FHSS MODE  
HAND SAR  
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.0 'C

Area Scan - Max Peak SAR Value at x=-5.0 y=13.0 = 3.46 W/kg

Zoom Scan - Max Peak SAR Value at x=-5.0 y=13.0 z=0.0 = 8.37 W/kg

Max 1g SAR at x=-4.0 y=14.0 z=0.0 = 3.73 W/kg

Max 10g SAR at x=-4.0 y=14.0 z=0.0 = 1.41 W/kg

SAR Data Report 02050117

Start : 1-May-02 12:16:04 pm  
End : 1-May-02 12:22:15 pm  
Code Version : 4.08  
Robot Version: 4.08

Product Data:

Type : ZEBRA  
Model Number : ENCORE-3N  
Frequency : 2480 MHz  
Transmit Pwr : 0.112 W  
Antenna Posn. : Internal

Measurement Data:

Phantom Name : SAM-FLAT  
Phantom Type : Uniphantom  
Tissue Type : Muscle  
Tissue Dielectric : 52.000  
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Robot Name : CRS

Probe Data:

Probe Name : PCT25  
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Calibrated Dielectric : 52.200  
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Calibrated Density : 1.000  
Probe Offset : 2.400 mm  
Conversion Factor : 16.500  
Probe Sensitivity : 0.753 0.726 0.683 mV/(mW/cm<sup>2</sup>)  
Amplifier Gains : 20.00 20.00 20.00

Sample:

Rate: 6000 Samples/Sec  
Count: 100 Samples  
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Comments:

FHSS MODE  
HAND SAR  
CF=1; Amb. Temp= 21.3 'C; Liq. Temp=21.0 'C

Area Scan - Max Peak SAR Value at x=-5.0 y=13.0 = 2.24 W/kg

Zoom Scan - Max Peak SAR Value at x=-5.0 y=13.0 z=0.0 = 5.64 W/kg

Max 1g SAR at x=-5.0 y=14.0 z=0.0 = 2.46 W/kg

Max 10g SAR at x=-5.0 y=13.0 z=0.0 = 0.92 W/kg

## SAR DATA SUMMARY (Continued)

Mixture Type: 2450MHz Muscle

### 14.1 MEASUREMENT RESULTS (FHSS Body SAR – User Control Side)

FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>			Separation Distance (cm)	Antenna Position	SAR (W/kg)
MHz	Ch.		WATTS		Battery			
2402	01	FHSS	0.112	0.112	Standard	1.0	Fixed	1.19
2440	45	FHSS	0.112	0.112	Standard	1.0	Fixed	0.75
2480	90	FHSS	0.112	0.112	Standard	1.0	Fixed	0.46
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b>						<b>Body</b>		
<b>Spatial Peak</b>						<b>1.6 W/kg (mW/g)</b>		
<b>Uncontrolled Exposure/General Population</b>						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 worst-case results are reported.
- Battery is fully charged for all readings.

- |                             |   |  |                                    |
|-----------------------------|---|--|------------------------------------|
| <sup>†</sup> Power Measured | <input checked="" type="checkbox"/> Conducted | <input type="checkbox"/> ERP                     | <input type="checkbox"/> EIRP      |
| 4. SAR Measurement System   | <input type="checkbox"/> DASY3                | <input checked="" type="checkbox"/> IDX          | <input type="checkbox"/>           |
| Phantom Configuration       | <input type="checkbox"/> Left Head            | <input checked="" type="checkbox"/> Flat Phantom | <input type="checkbox"/> Left 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  |                                    |

- Tissue parameters and temperatures are listed on the SAR plots.




  
Randy Ortanez  
President



Figure 14.3 Body SAR Test Setup

PCTEST™ SAR TEST REPORT		FCC CERTIFICATION		Reviewed by: Quality Manager
SAR Filename: SAR.220326132.H9P	Test Dates: April 29 – May 1, 2002	EUT Type: Portable Network Printer	FCC ID: H9PLA3021-100	Page 18 of 21