

	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
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Test Date: 08/18/2011

PLOT # F1

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 35.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Touch - Ch.6 - 1Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.917 mW/g

Left Touch - Ch.6 - 1Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

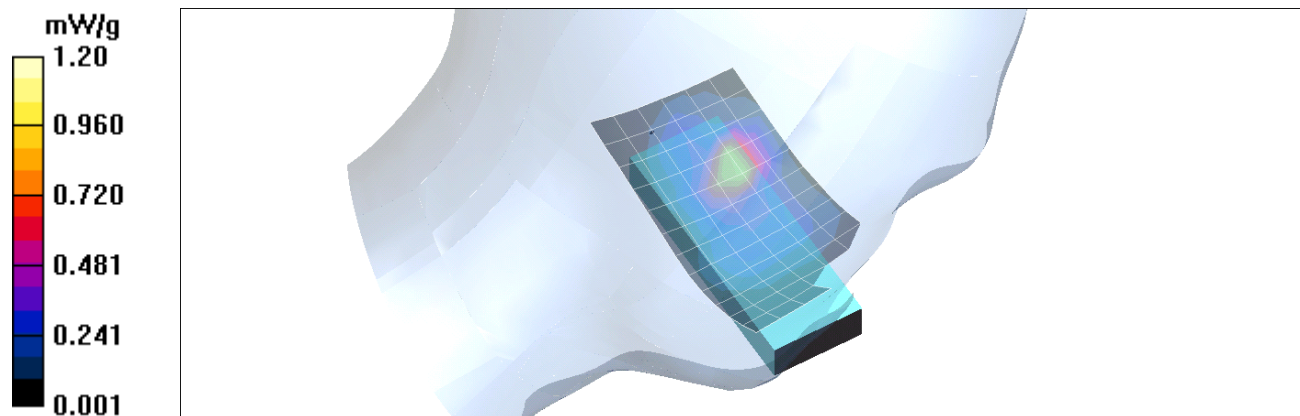
Reference Value = 18.5 V/m; Power Drift = -0.005 dB

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 0.802 mW/g; SAR(10 g) = 0.297 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.20 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/18/2011

PLOT # F2

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 35.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Touch - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.20 mW/g

Left Touch - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

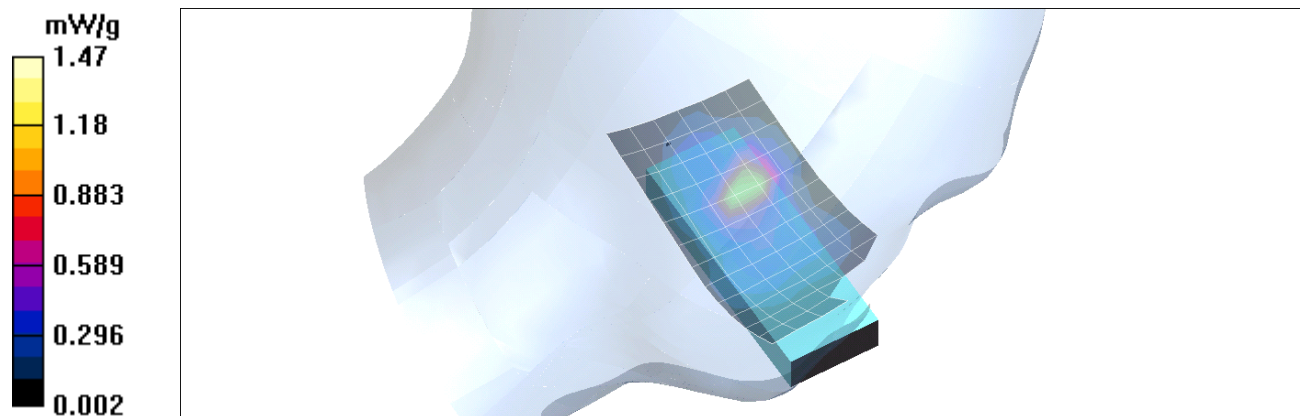
Reference Value = 23.6 V/m; Power Drift = -0.234 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.387 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

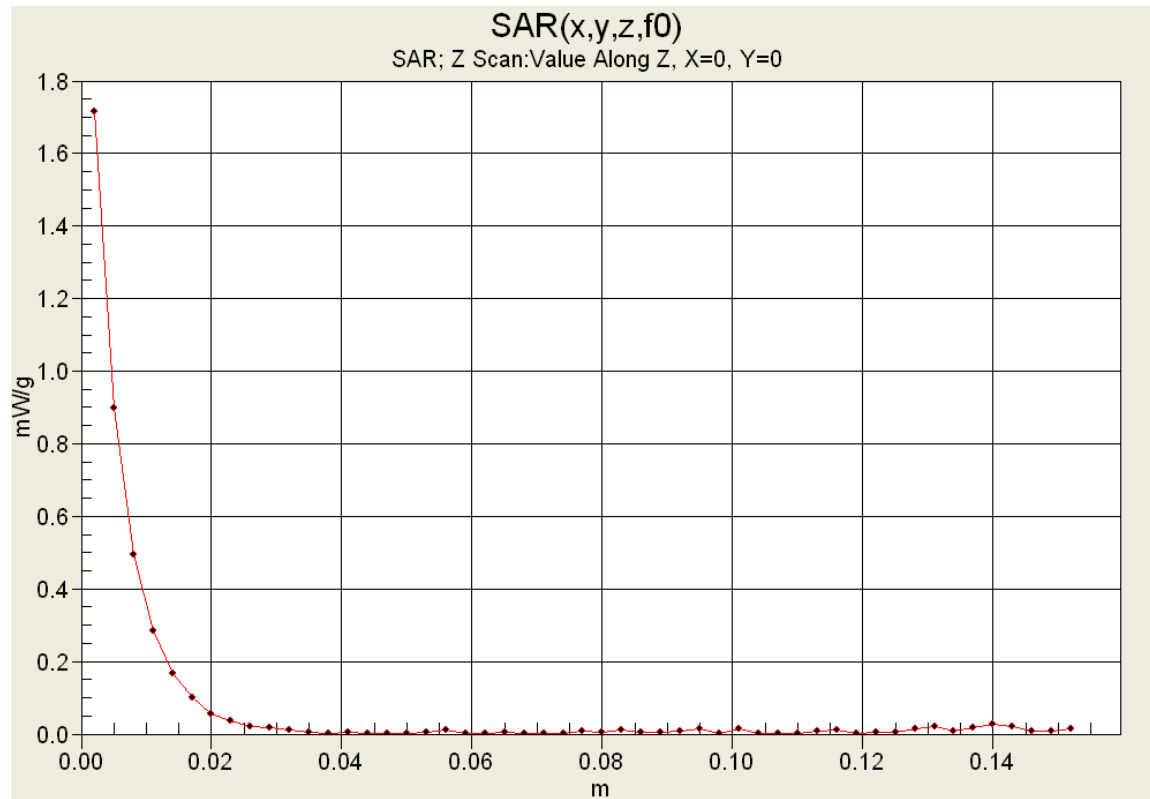
Maximum value of SAR (measured) = 1.47 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Z-axis Scan



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/18/2011

PLOT # F3

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.91 \text{ mho/m}$; $\epsilon_r = 35.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Tilt - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.356 mW/g

Left Tilt - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

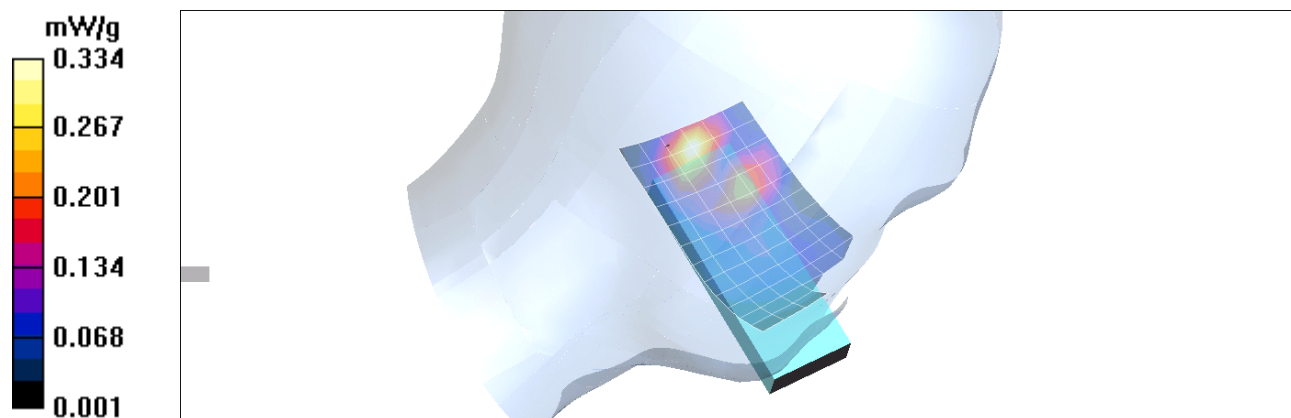
Reference Value = 12.6 V/m; Power Drift = -0.178 dB

Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.119 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.334 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/22/2011

PLOT # F4

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 37%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Right Touch - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.676 mW/g

Right Touch - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

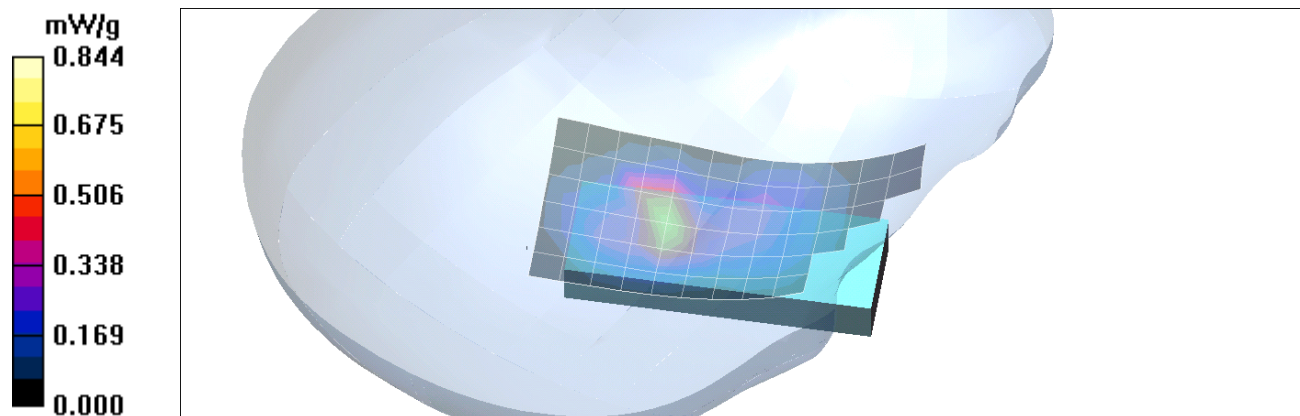
Reference Value = 18.0 V/m; Power Drift = -0.523 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.557 mW/g; SAR(10 g) = 0.227 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

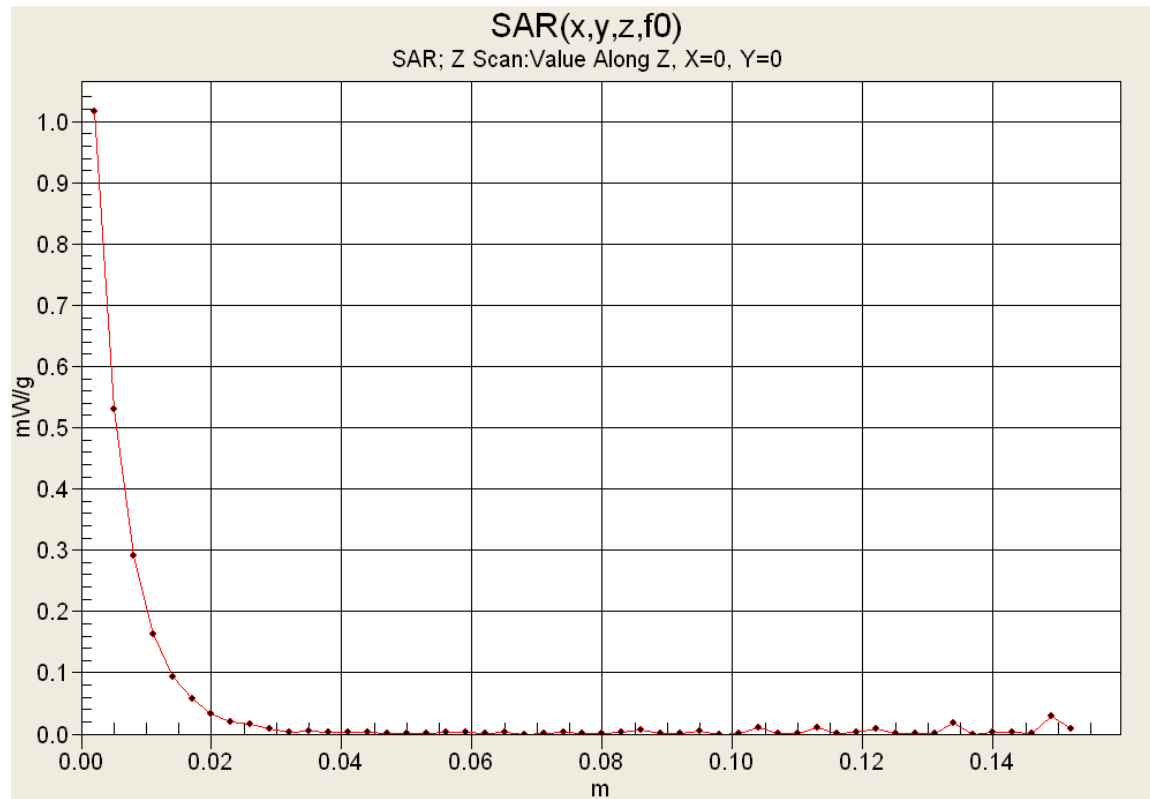
Maximum value of SAR (measured) = 0.844 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Z-axis Scan



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/22/2011

PLOT # F5

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 37%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.87 \text{ mho/m}$; $\epsilon_r = 36.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Right Tilt - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.339 mW/g

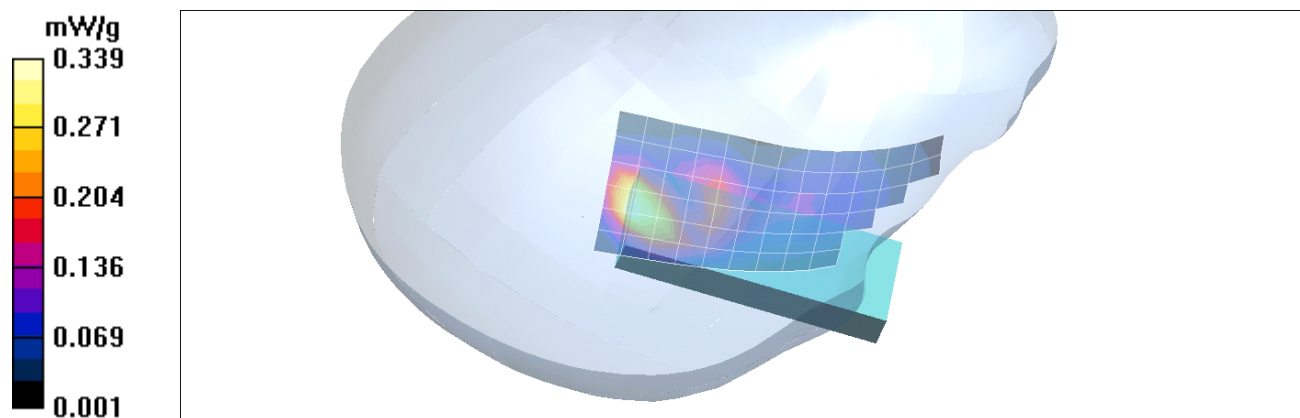
Right Tilt - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.1 V/m; Power Drift = -0.268 dB

Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.120 mW/g

Info: Interpolated medium parameters used for SAR evaluation.



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/18/2011

PLOT # F6

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11b DSSS

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.86 \text{ mho/m}$; $\epsilon_r = 35.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Touch - Ch.1 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.06 mW/g

Left Touch - Ch.1 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

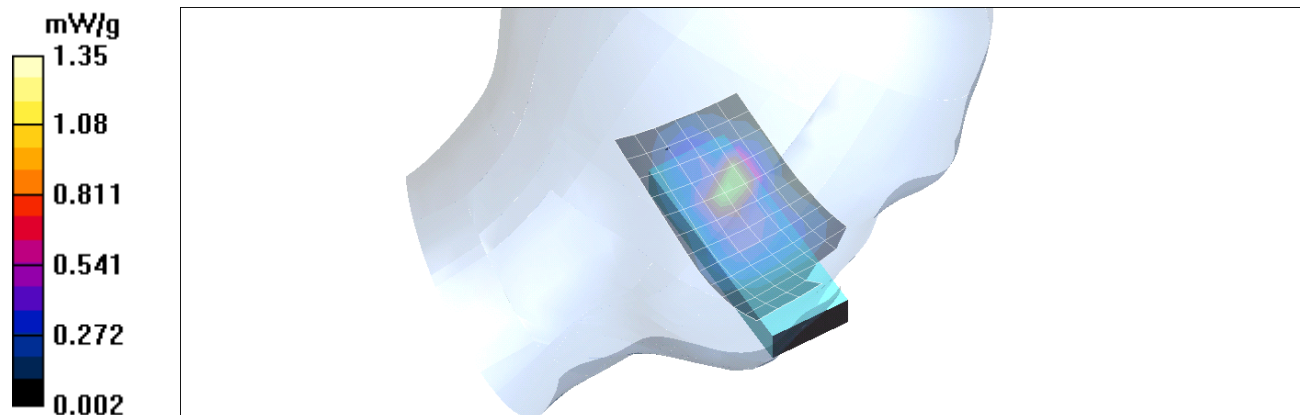
Reference Value = 22.0 V/m; Power Drift = -0.210 dB

Peak SAR (extrapolated) = 3.02 W/kg

SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.376 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.35 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	Date(s) of Evaluation August 18-23, 2011	Test Report Serial No. 080911QGZ-T1110-S15W	Test Report Revision No. Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	Test Report Issue Date September 06, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

Test Date: 08/18/2011

PLOT # F7

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11b DSSS

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.93 \text{ mho/m}$; $\epsilon_r = 35.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Touch - Ch.11 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.05 mW/g

Left Touch - Ch.11 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

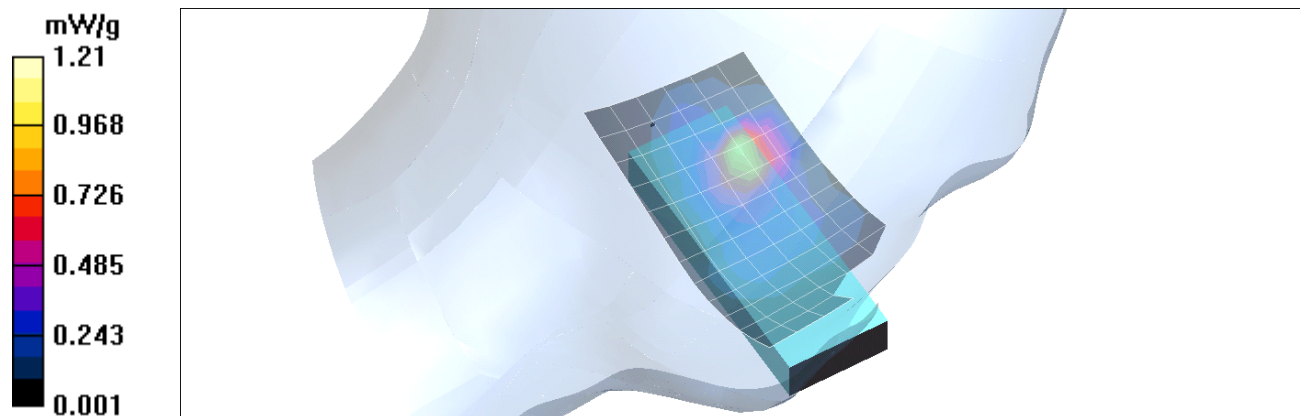
Reference Value = 20.0 V/m; Power Drift = -0.115 dB

Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 0.824 mW/g; SAR(10 g) = 0.298 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.21 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	Date(s) of Evaluation August 18-23, 2011	Test Report Serial No. 080911QGZ-T1110-S15W	Test Report Revision No. Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	Test Report Issue Date September 06, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # F8

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.9 \text{ mho/m}$; $\epsilon_r = 36.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Touch - Ch.11 - 6Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.521 mW/g

Left Touch - Ch.11 - 6Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

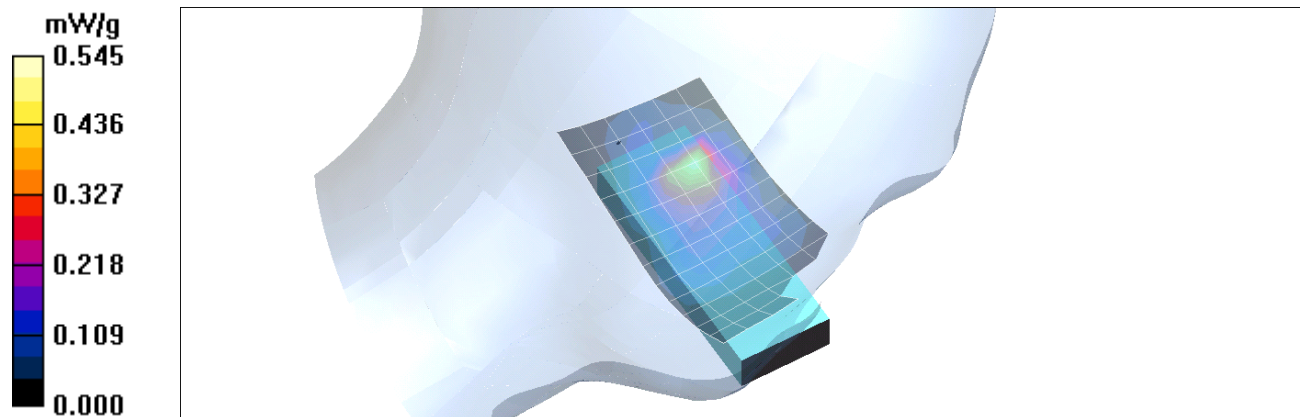
Reference Value = 14.6 V/m; Power Drift = -0.270 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.385 mW/g; SAR(10 g) = 0.145 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.545 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # F9

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.9 \text{ mho/m}$; $\epsilon_r = 36.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Touch - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.513 mW/g

Left Touch - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

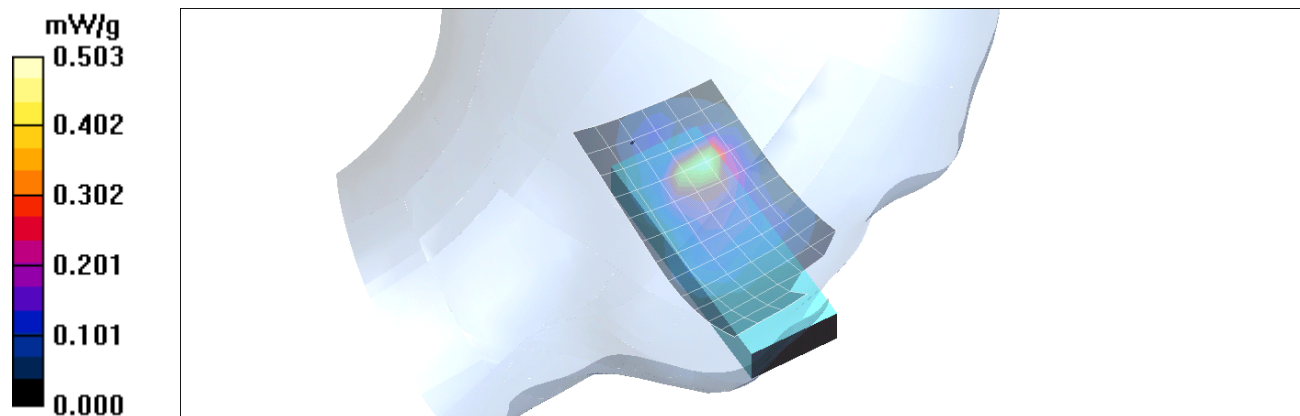
Reference Value = 14.2 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.135 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.503 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/19/2011

PLOT # F10

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 35.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Left Tilt - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.170 mW/g

Left Tilt - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

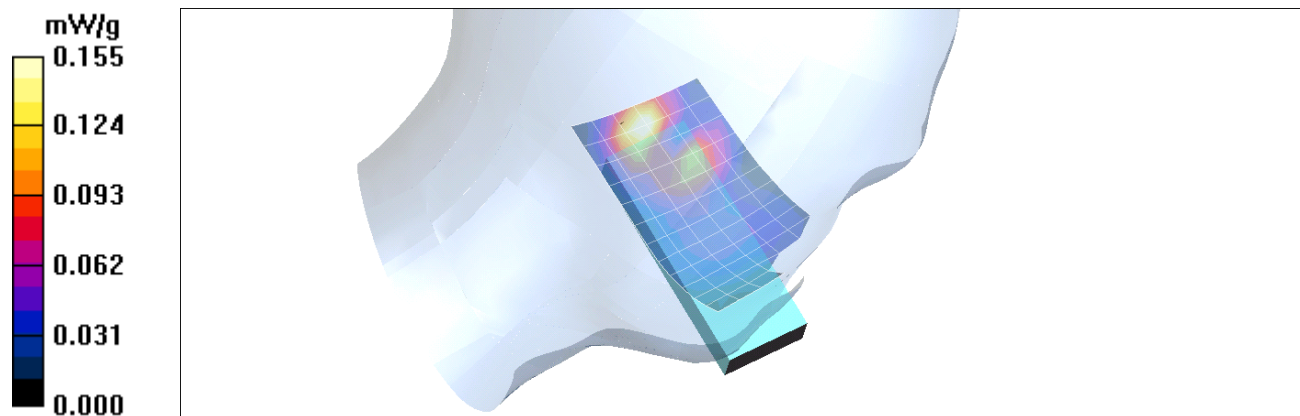
Reference Value = 8.72 V/m; Power Drift = -0.306 dB

Peak SAR (extrapolated) = 0.223 W/kg

SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.056 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.155 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/19/2011

PLOT # F11

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 31%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.92 \text{ mho/m}$; $\epsilon_r = 35.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Right Touch - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.361 mW/g

Right Touch - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

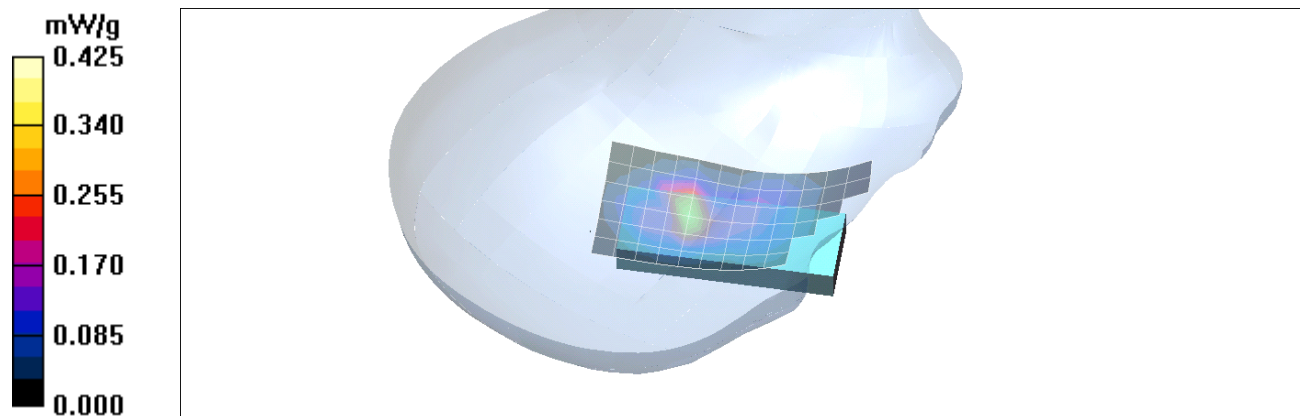
Reference Value = 12.9 V/m; Power Drift = -0.565 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.114 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

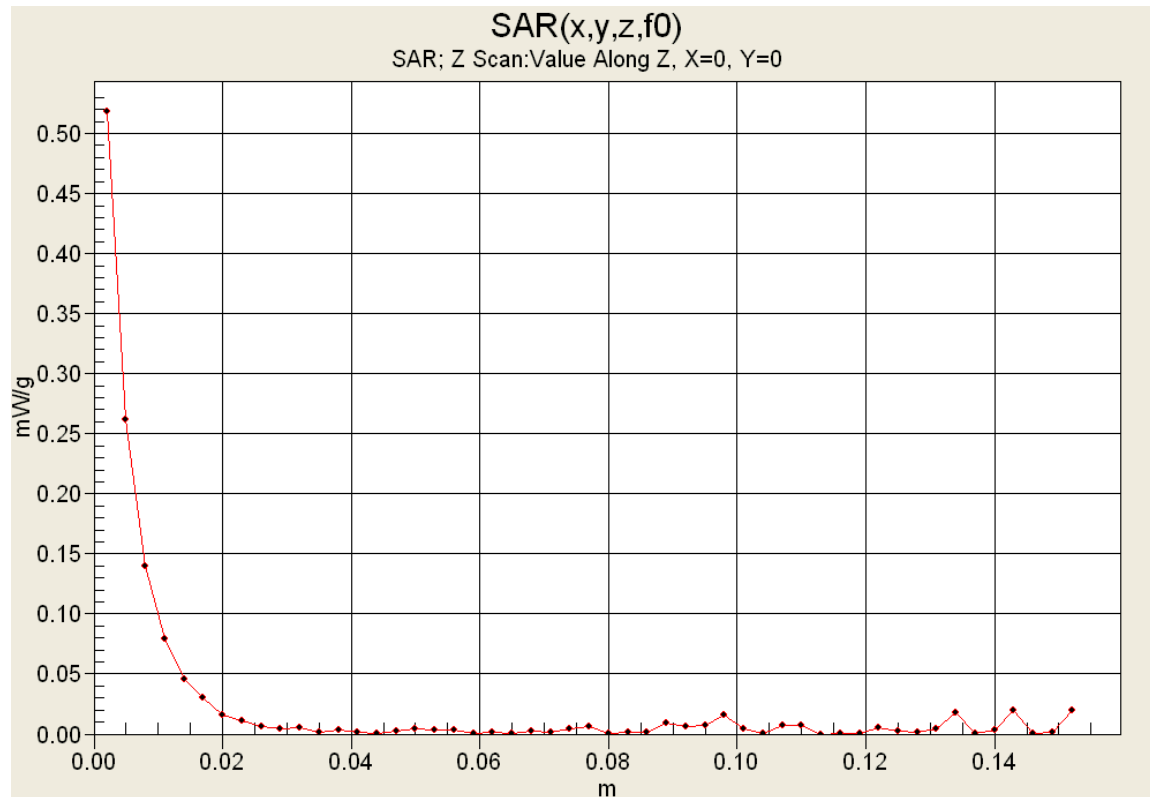
Maximum value of SAR (measured) = 0.425 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Z-axis Scan



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	Date(s) of Evaluation August 18-23, 2011	Test Report Serial No. 080911QGZ-T1110-S15W	Test Report Revision No. Rev. 1.0 (Initial Release)	
	Test Report Issue Date September 06, 2011	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

Test Date: 08/22/2011

PLOT # F12

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 24.0C; Fluid Temp: 24.0C; Barometric Pressure: 101.1 kPa; Humidity: 37%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.9 \text{ mho/m}$; $\epsilon_r = 36$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.55, 6.55, 6.55); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Right Tilt - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.155 mW/g

Right Tilt - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

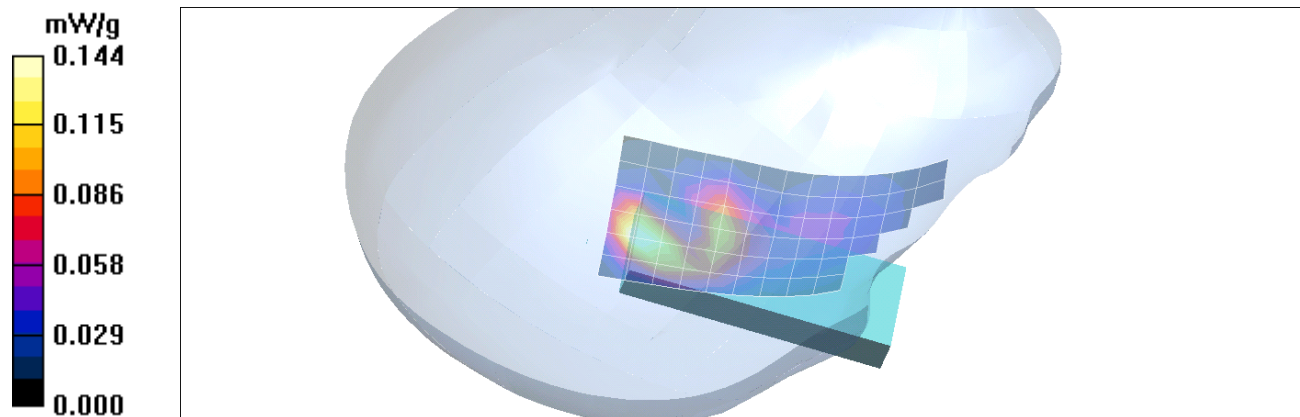
Reference Value = 8.13 V/m; Power Drift = -0.317 dB

Peak SAR (extrapolated) = 0.209 W/kg

SAR(1 g) = 0.112 mW/g; SAR(10 g) = 0.049 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.144 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B1

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Earpiece - Ch.6 - 1Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.603 mW/g

Lanyard - Earpiece - Ch.6 - 1Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

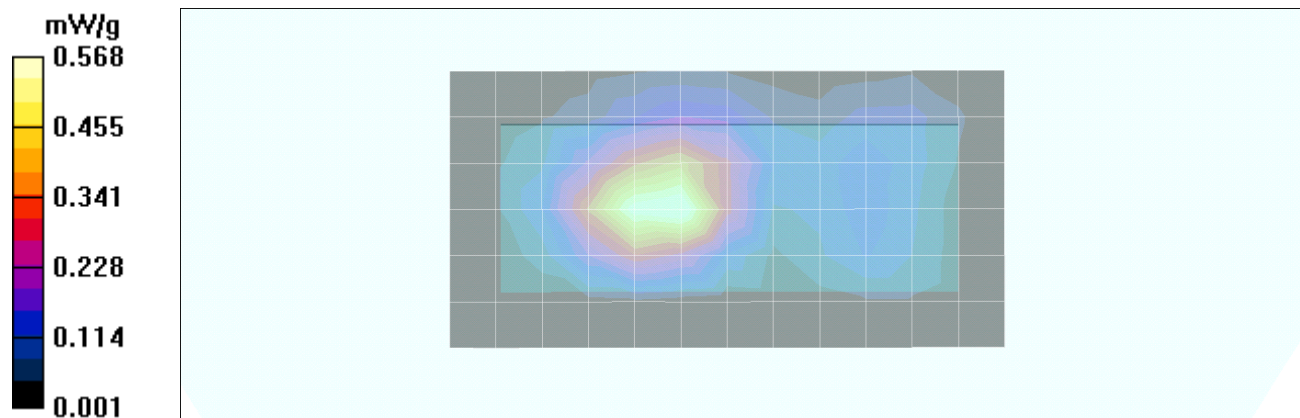
Reference Value = 15.8 V/m; Power Drift = -0.287 dB

Peak SAR (extrapolated) = 0.901 W/kg

SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.215 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.568 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B2

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.589 mW/g

Lanyard - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

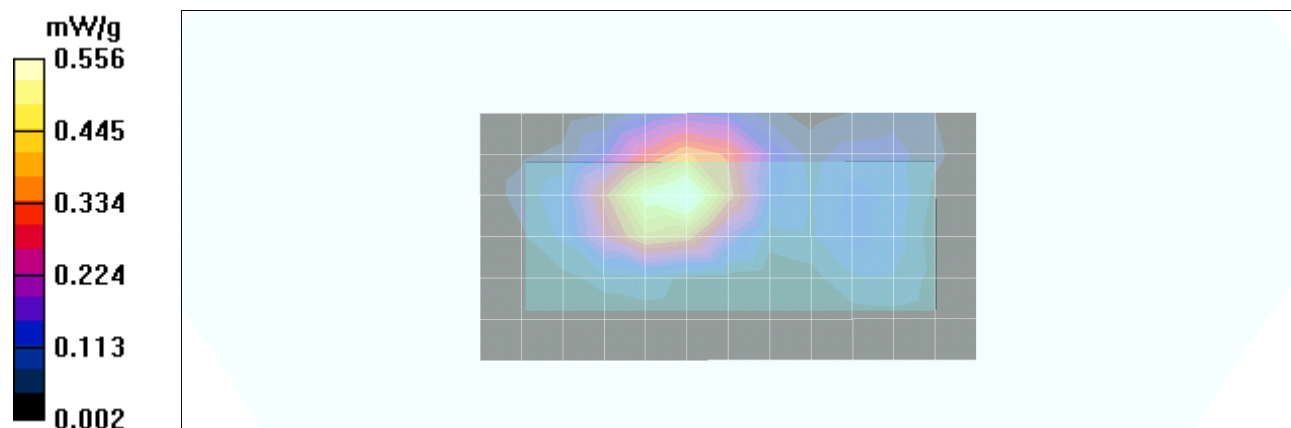
Reference Value = 15.9 V/m; Power Drift = -0.333 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.223 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.556 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B3

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Earpiece - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.724 mW/g

Lanyard - Earpiece - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

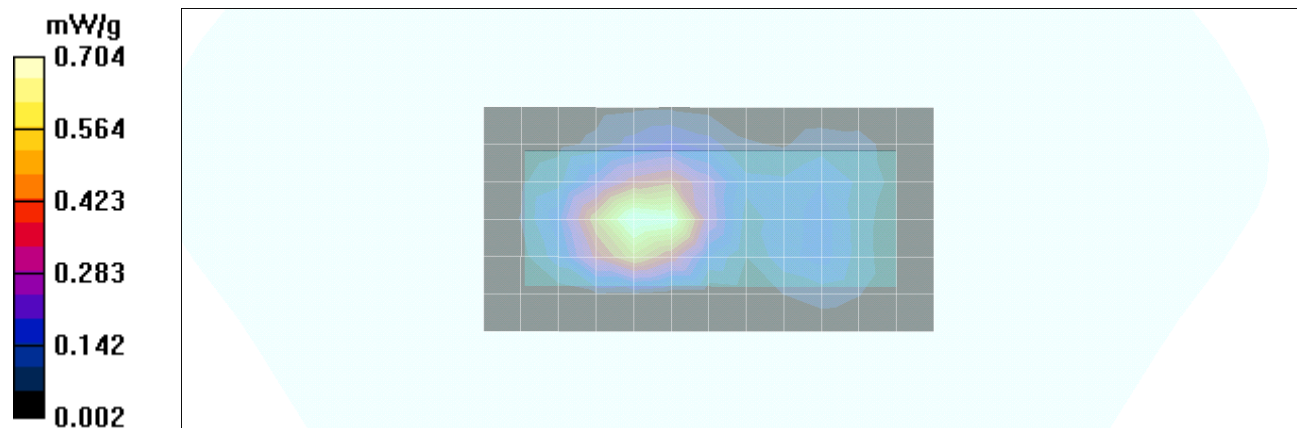
Reference Value = 17.6 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.276 mW/g

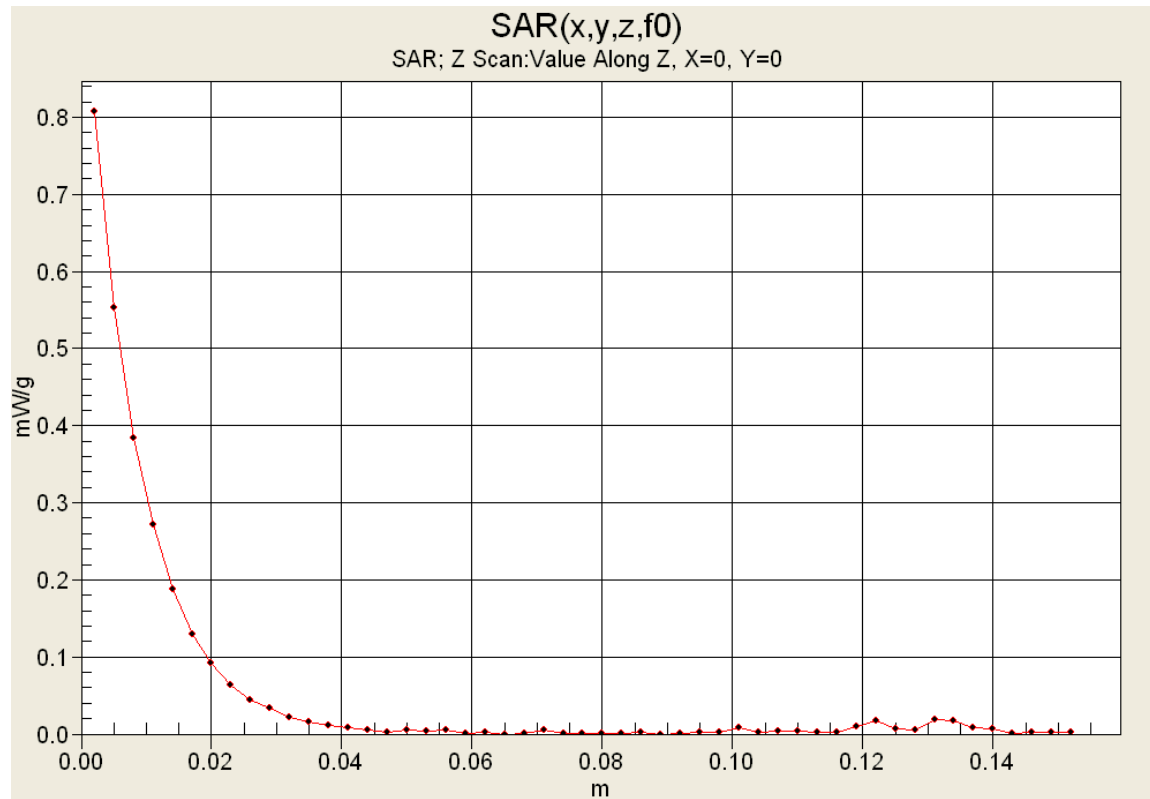
Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.704 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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Z-axis Scan



	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B4

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Headset - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.651 mW/g

Lanyard - Headset - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

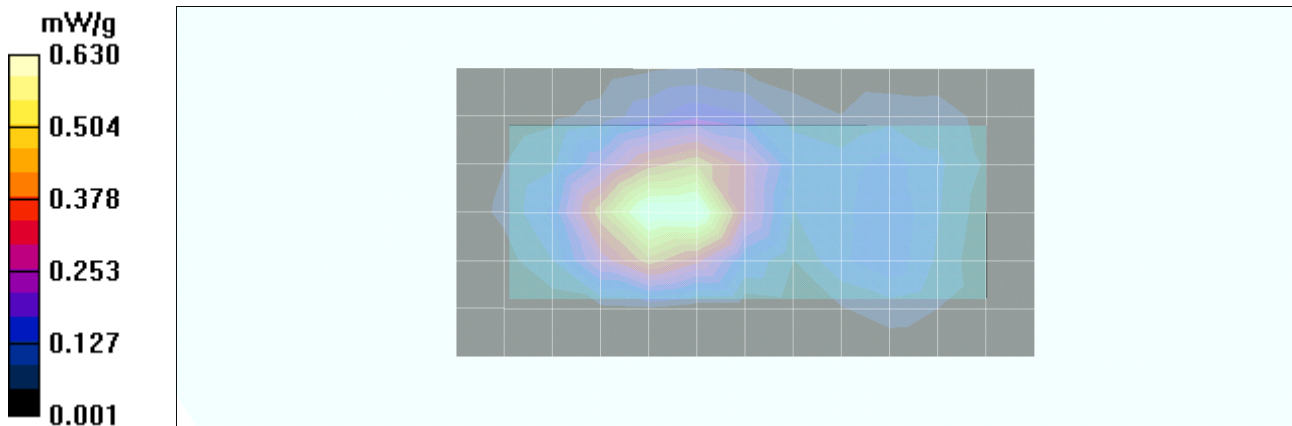
Reference Value = 16.6 V/m; Power Drift = -0.225 dB

Peak SAR (extrapolated) = 0.963 W/kg

SAR(1 g) = 0.499 mW/g; SAR(10 g) = 0.245 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.630 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B5

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Universal Clip - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.592 mW/g

Universal Clip - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

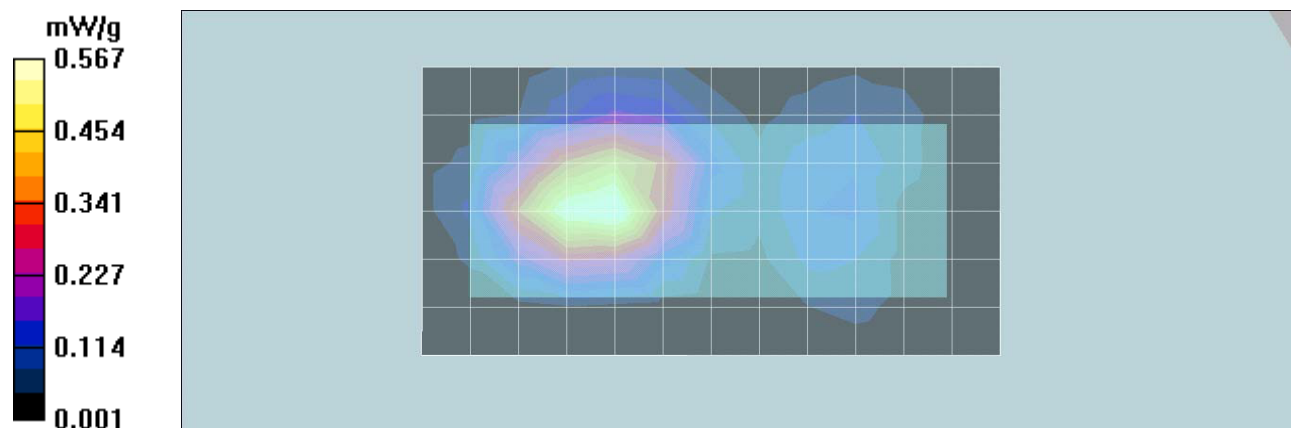
Reference Value = 15.9 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 0.848 W/kg

SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.226 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.567 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B6

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Universal Clip - Earpiece - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.530 mW/g

Universal Clip - Earpiece - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

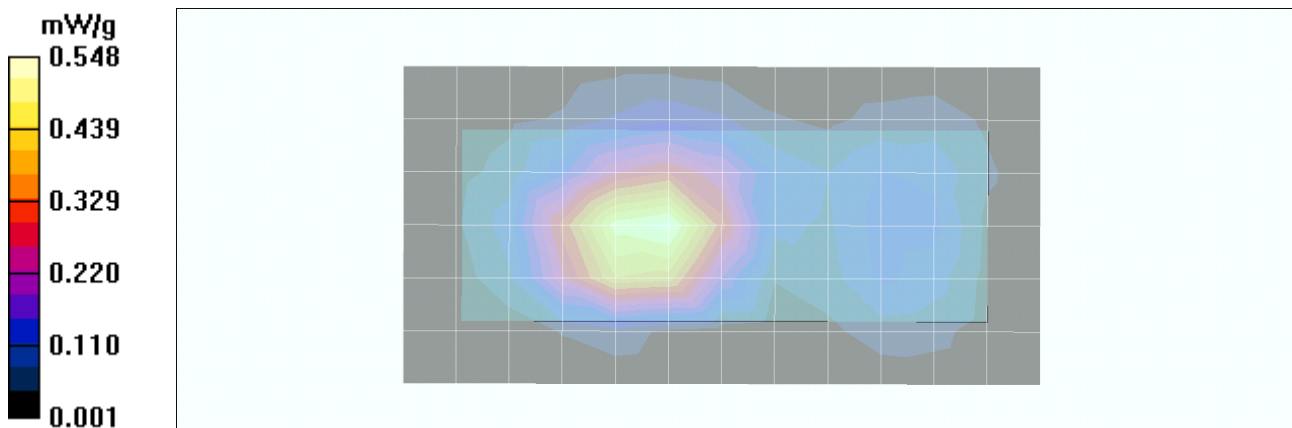
Reference Value = 15.4 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.224 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.548 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B7

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11b DSSS

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Universal Clip - Headset - Ch.6 - 5.5Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.543 mW/g

Universal Clip - Headset - Ch.6 - 5.5Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

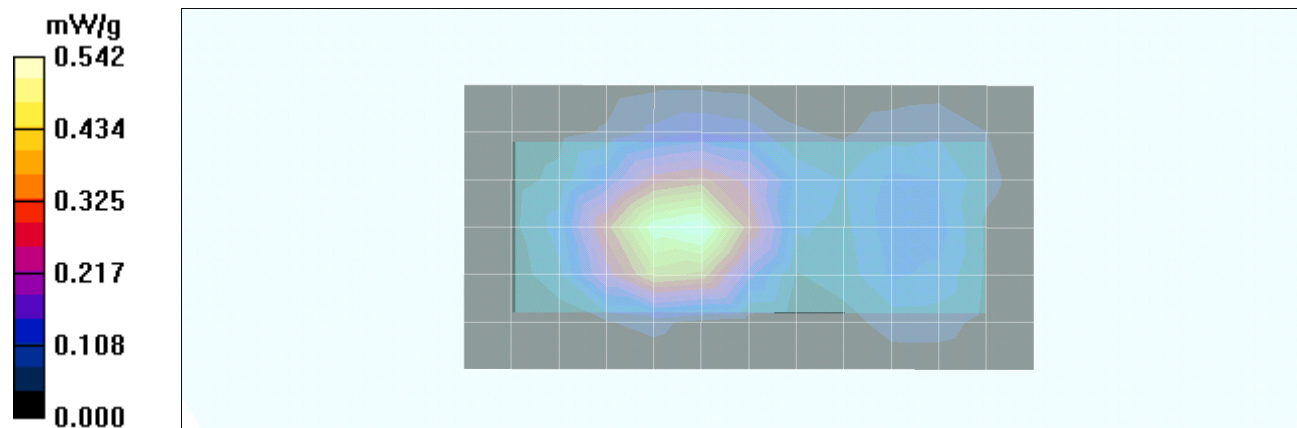
Reference Value = 15.5 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.220 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.542 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B8

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Earpiece - Ch.11 - 6Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.324 mW/g

Lanyard - Earpiece - Ch.11 - 6Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

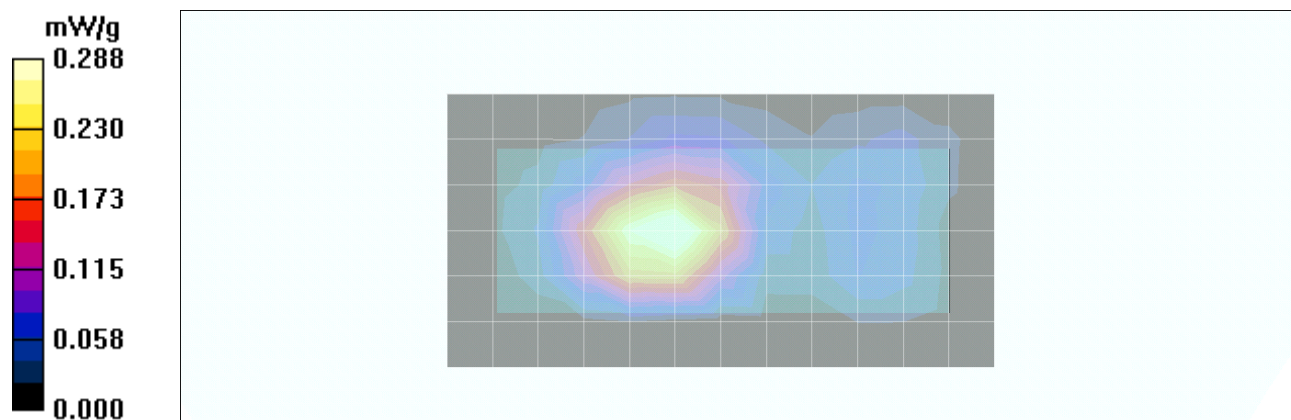
Reference Value = 11.7 V/m; Power Drift = -0.220 dB

Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.114 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.288 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B9

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.387 mW/g

Lanyard - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

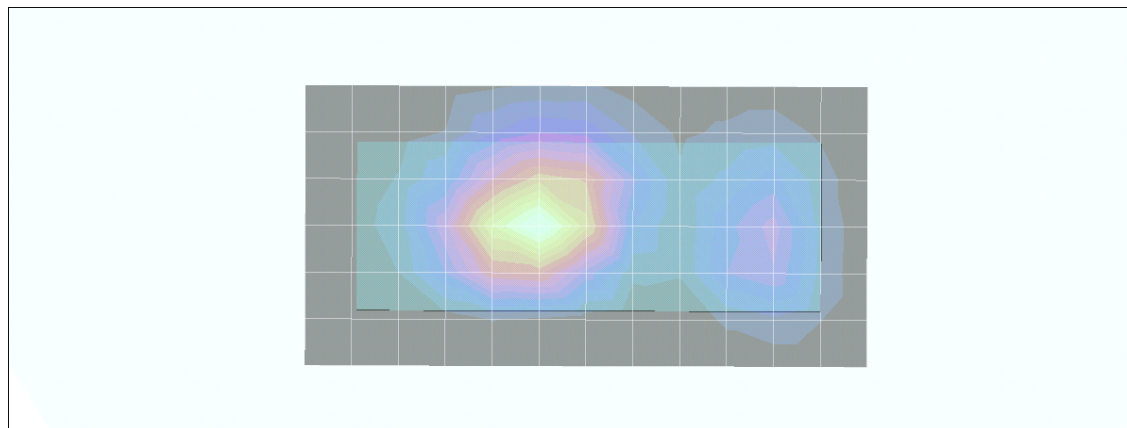
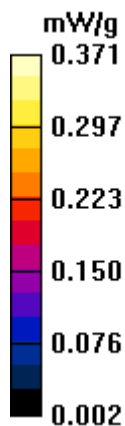
Reference Value = 12.8 V/m; Power Drift = 0.088 dB

Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.142 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.371 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B10

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Earpiece - Ch.11 - 24Mbps 2/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.421 mW/g

Lanyard - Earpiece - Ch.11 - 24Mbps 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

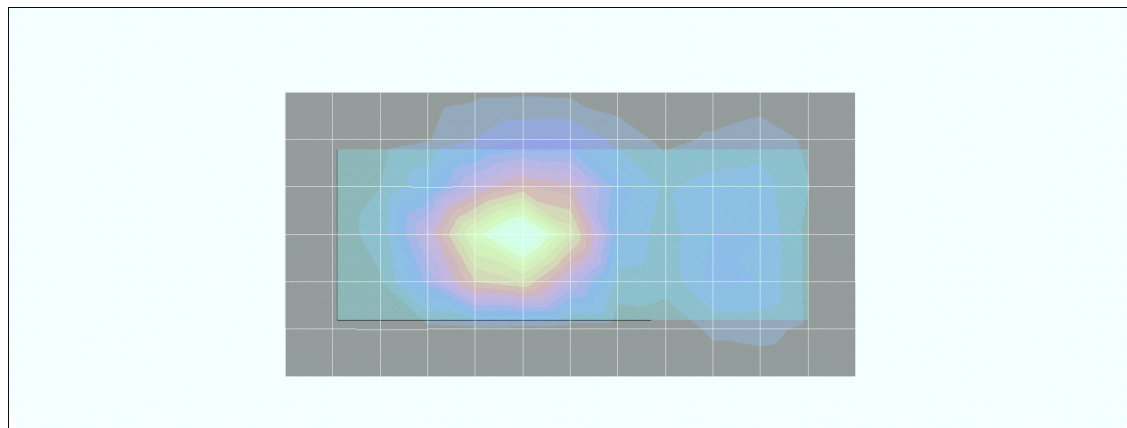
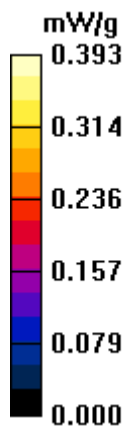
Reference Value = 13.4 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.316 mW/g; SAR(10 g) = 0.152 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.393 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B11

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Lanyard - Headset - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.356 mW/g

Lanyard - Headset - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

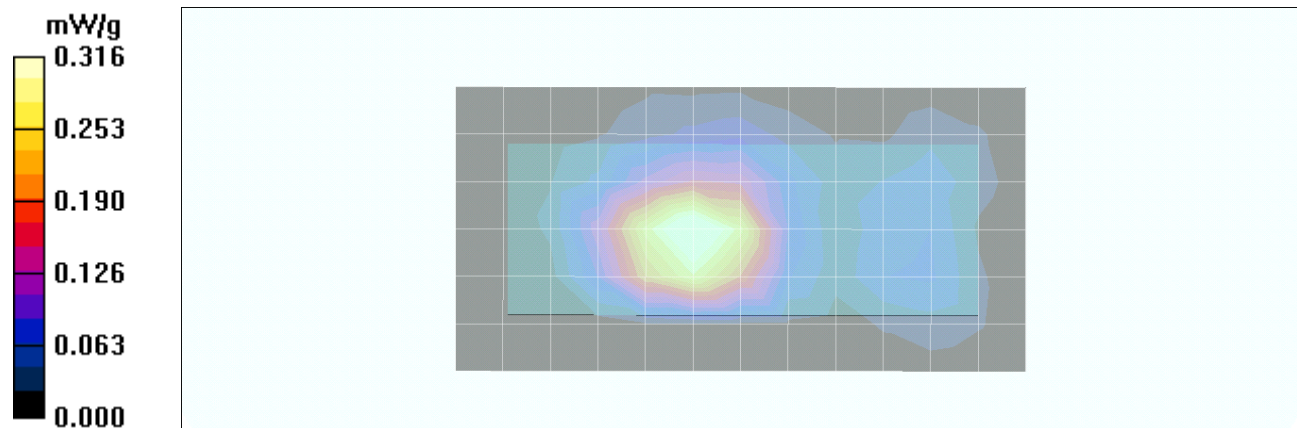
Reference Value = 12.0 V/m; Power Drift = -0.324 dB

Peak SAR (extrapolated) = 0.516 W/kg

SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.117 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.316 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B12

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Universal Clip - Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.349 mW/g

Universal Clip - Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

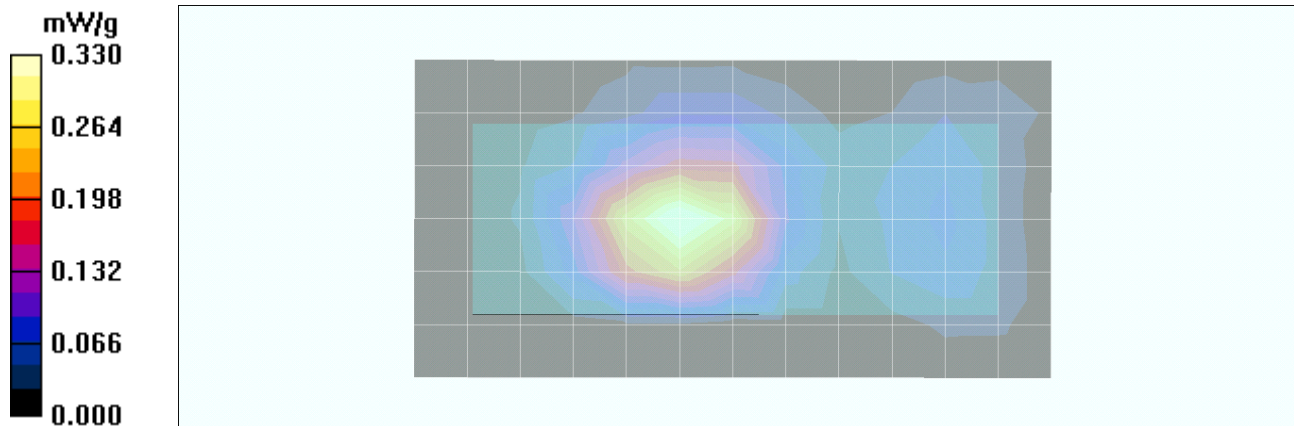
Reference Value = 12.3 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.129 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.330 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B13

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Universal Clip - Earpiece Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.336 mW/g

Universal Clip - Earpiece Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

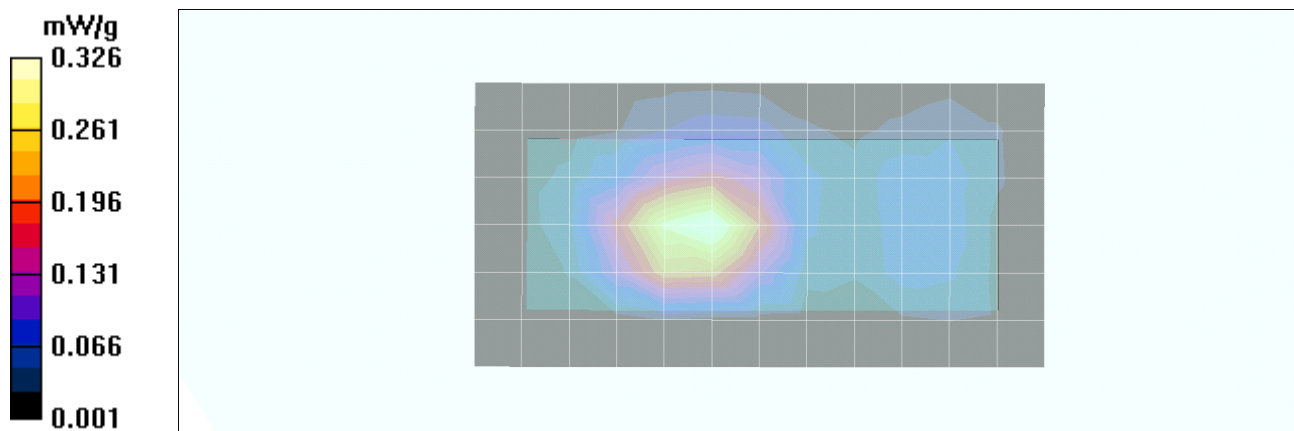
Reference Value = 12.1 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.127 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.326 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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	<u>Date(s) of Evaluation</u> August 18-23, 2011	<u>Test Report Serial No.</u> 080911QGZ-T1110-S15W	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> September 06, 2011	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Date: 08/23/2011

PLOT # B14

DUT: Vocera Model: B3000 Badge; Type: 802.11b/g Communications Badge; Serial: F002E (Pre-production)

Ambient Temp: 23.0C; Fluid Temp: 23.6C; Barometric Pressure: 101.1 kPa; Humidity: 44%

Communication System: 802.11g OFDM

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.15, 6.15, 6.15); Calibrated: 23/06/2011
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Universal Clip - Headset Ch.11 - 24Mbps/Area Scan (7x13x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.313 mW/g

Universal Clip - Headset Ch.11 - 24Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

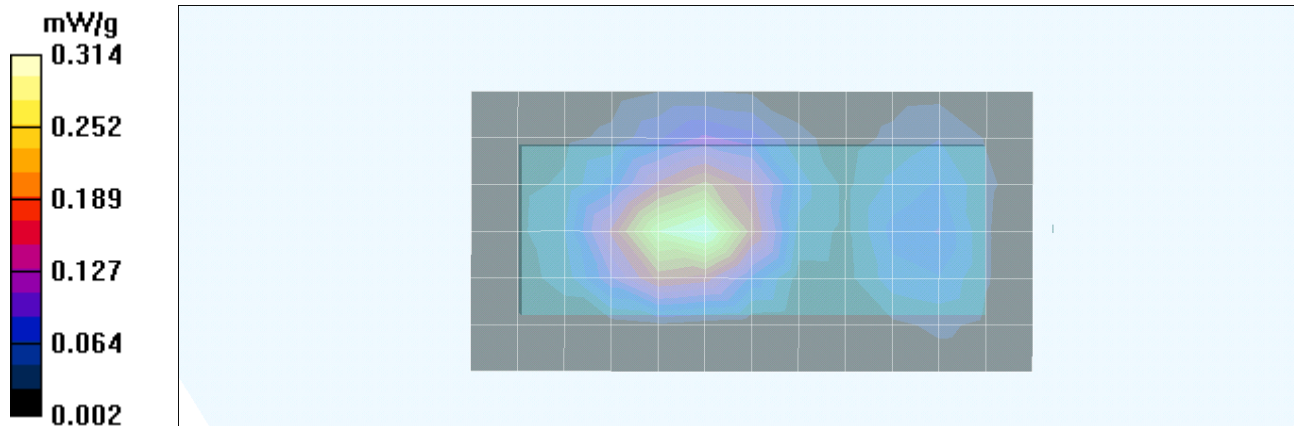
Reference Value = 11.7 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 0.505 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.119 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.314 mW/g



Applicant:	Vocera Communications Inc.	FCC ID:	QGZB3000	IC:	4362A-B3000	
Model(s):	B3000 Badge	DUT Type:	Portable Communications Badge with 802.11b/g WLAN & BT			
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