

Applicant:KyoceraFCC ID:V65M9300Report #:CT-M9300-9A-1210-R1

EXHIBIT 9 APPENDIX A: SAR VALIDATION PLOTS

Validation for HEAD

Date: 12/06/2010

Test Laboratory: Comptest/Kyocera

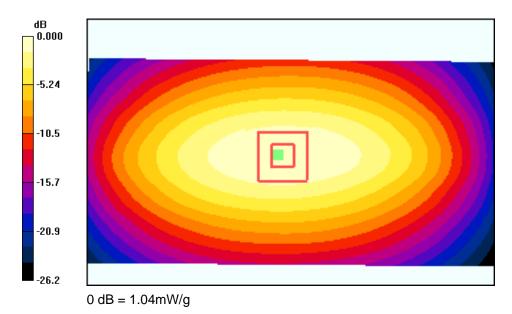
835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #4d019

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1 Medium: Head 835 MHz,Medium parameters used (interpolated): f = 835 MHz; σ = 0.91 mho/m; ϵ_r = 40.7; ρ = 1000 kg/m³ Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:**

Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn530,Calibrated: 4/23/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

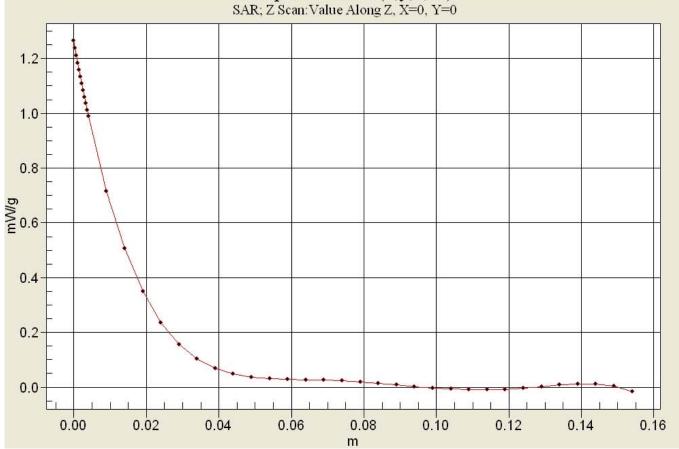
835MHz Validation/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.05 mW/g

835MHz Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 34.8 V/m; Power Drift = -0.017 dB Peak SAR (extrapolated) = 1.42 W/kg SAR(1 g) = 0.967 mW/g; SAR(10 g) = 0.634 mW/g Maximum value of SAR (measured) = 1.04 mW/g





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Date: 12/13/2010

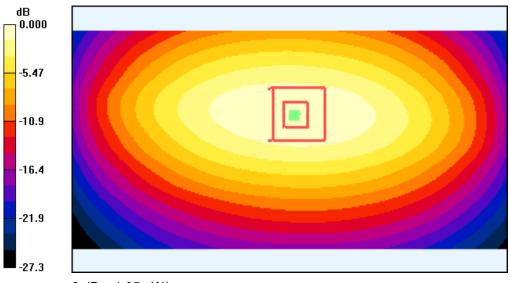
835MHz Validation @ 20dbm, Probe #1618, DAE#530, Dipole #4d019

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1 Medium: Head 835 MHz,Medium parameters used (interpolated): f = 835 MHz; σ = 0.9 mho/m; ϵ_r = 40.5; ρ = 1000 kg/m³ Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:** Probe: ET3DV6 - SN1618, ConvF(6.52, 6.52, 6.52), Calibrated: 8/11/2010 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn530,Calibrated: 4/23/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

835MHz Validation/Area Scan (61x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.05 mW/g

835MHz Validation/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

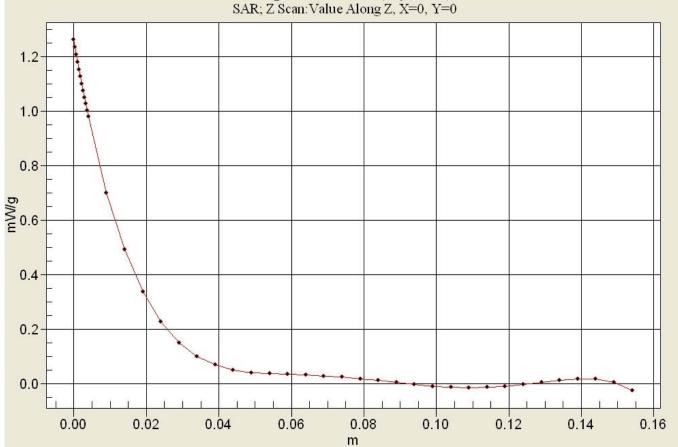
Reference Value = 30.8 V/m; Power Drift = 0.058 dB Peak SAR (extrapolated) = 1.43 W/kg SAR(1 g) = 0.973 mW/g; SAR(10 g) = 0.636 mW/g Maximum value of SAR (measured) = 1.05 mW/g



0 dB = 1.05 mW/g



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Date: 12/08/2010

1900Mhz Validation @ 20dBm Probe 3035, DAE 675 and Dipole 5d016 Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1

Medium: HSL1900,Medium parameters used (interpolated): f = 1900 MHz; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.17$; $\rho = 1000 \text{ kg/m}^3$ Phantom: SAM 12,Phantom section: Flat Section

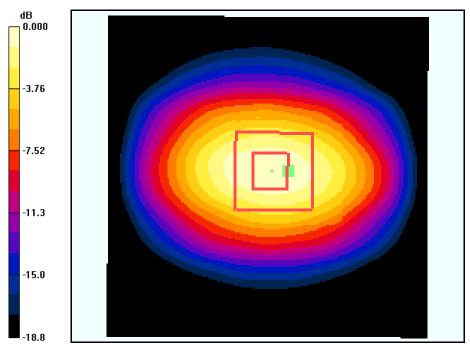
DASY4 Configuration:

Probe: ES3DV3 - SN3035, ConvF(5, 5, 5), Calibrated: 9/9/2010Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn675, Calibrated: 4/21/2010Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 4.75 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

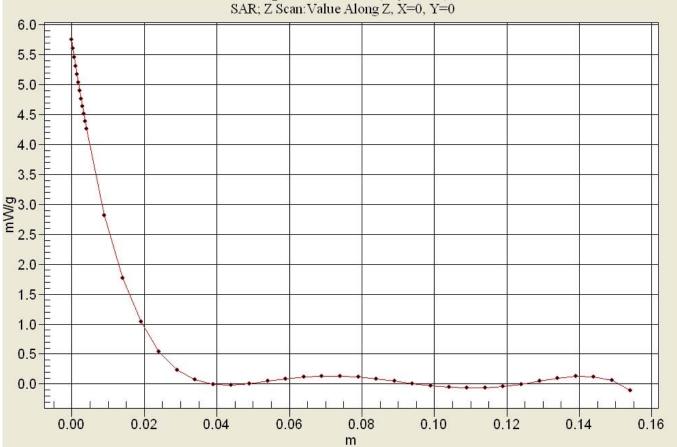
Reference Value = 57.3 V/m; Power Drift = 0.033 dB Peak SAR (extrapolated) = 7.46 W/kg SAR(1 g) = 4.08 mW/g; SAR(10 g) = 2.13 mW/g Maximum value of SAR (measured) = 4.63 mW/g



0 dB = 4.63 mW/g



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Date: 12/17/2010

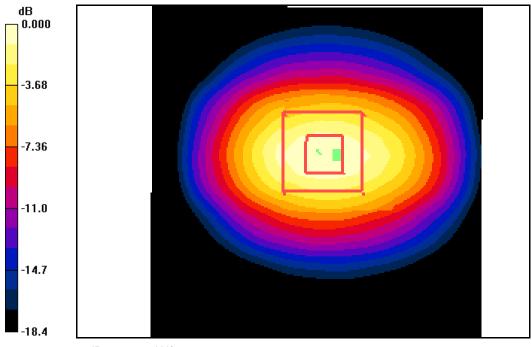
1900Mhz Validation @ 20dBm Probe 3035, DAE 675 and Dipole 5d016 Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1 Medium: HSL1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.46 mho/m; ϵ_r = 38.5; ρ = 1000 kg/m³

Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:** Probe: ES3DV3 - SN3035, ConvF(5, 5, 5), Calibrated: 9/9/2010 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn675,Calibrated: 4/21/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 4.97 mW/g

1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 54.5 V/m; Power Drift = -0.030 dB

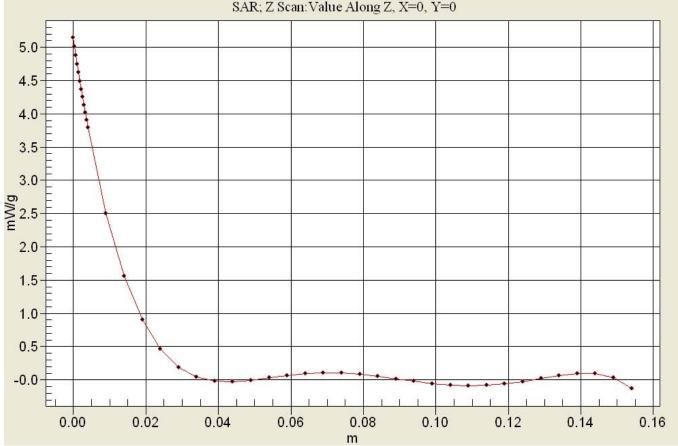
Peak SAR (extrapolated) = 7.59 W/kg SAR(1 g) = 4.11 mW/g; SAR(10 g) = 2.11 mW/g Maximum value of SAR (measured) = 4.67 mW/g



0 dB = 4.67 mW/g



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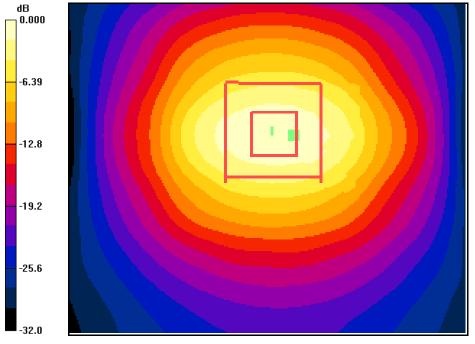
Date: 03/09/2011

Test Laboratory: Comptest/Kyocera **2450Mhz Validation @ 20dBm Probe 3078, DAE 602 and Dipole 776** Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1 Medium: HSL2450,Medium parameters used: f = 2450 MHz; σ = 1.86 mho/m; ϵ_r = 38.1; ρ = 1000 kg/m³ Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:** Probe: ES3DV3 - SN3078, ConvF(4.34, 4.34, 4.34), Calibrated: 6/22/2009 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn602,Calibrated: 7/14/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

2450MHz Validation @20dBm/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 6.75 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 53.1 V/m; Power Drift = 0.010 dB Peak SAR (extrapolated) = 12.2 W/kg SAR(1 g) = 5.53 mW/g; SAR(10 g) = 2.47 mW/g Maximum value of SAR (measured) = 6.37 mW/g

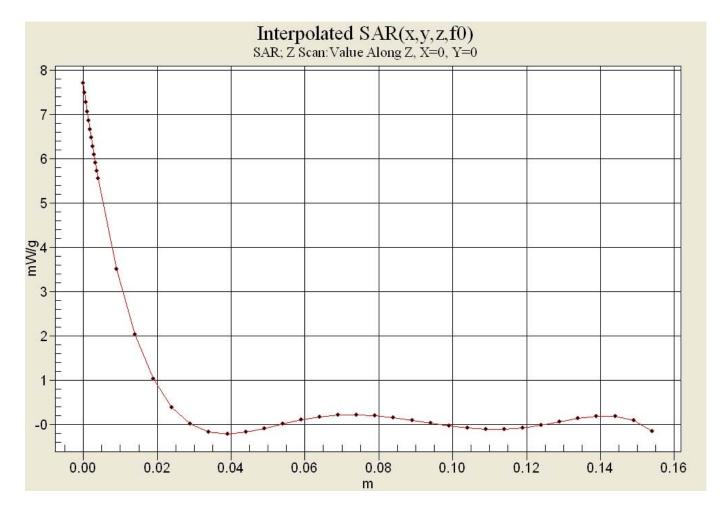
*l*aximum value of SAR (measured) = 6.37 mW/g



0 dB = 6.75 mW/g



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Validation for BODY

Date: 12/15/2010

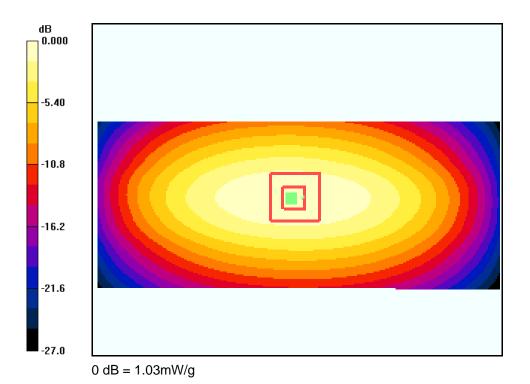
Test Laboratory: Comptest/Kyocera

835MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #4d019

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1 Medium: M800,Medium parameters used: f = 835 MHz; σ = 0.95 mho/m; ϵ_r = 54.9; ρ = 1000 kg/m³ Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:** Probe: ES3DV3 - SN3078, ConvF(5.82, 5.82, 5.82), Calibrated: 7/14/2010 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn602,Calibrated: 7/14/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liguid T = 22.0 +/- 1 deg C

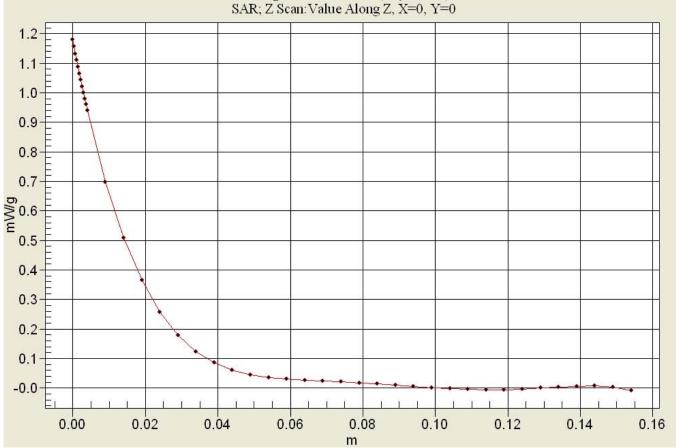
835MHz/Area Scan (51x121x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.02 mW/g

835MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 33.3 V/m; Power Drift = 0.037 dB Peak SAR (extrapolated) = 1.39 W/kg SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.632 mW/g Maximum value of SAR (measured) = 1.03 mW/g





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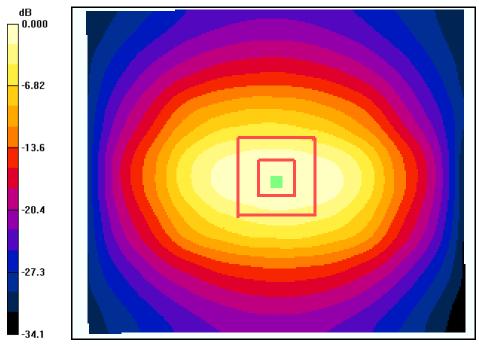
Date: 12/17/2010

Test Laboratory: Comptest/Kyocera

1900MHz Validation (in Muscle), Probe #3078, DAE #602, Dipole #5d016 Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1 Medium: M1900,Medium parameters used (interpolated): f = 1900 MHz; σ = 1.58 mho/m; ϵ_r = 52.3; ρ = 1000 kg/m³ Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:** Probe: ES3DV3 - SN3078, ConvF(4.5, 4.5, 4.5), Calibrated: 7/14/2010 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn602,Calibrated: 7/14/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

1900MHz Validation @20dBm/Area Scan (61x71x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 5.15 mW/g

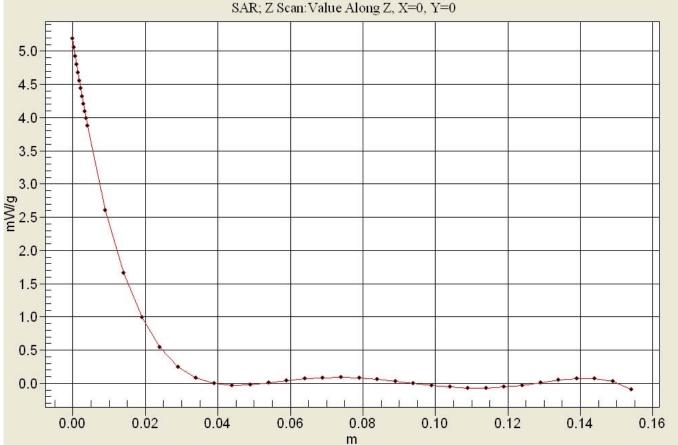
1900MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.8 V/m; Power Drift = -0.015 dB Peak SAR (extrapolated) = 7.27 W/kg SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.16 mW/g Maximum value of SAR (measured) = 4.76 mW/g



0 dB = 4.76 mW/g



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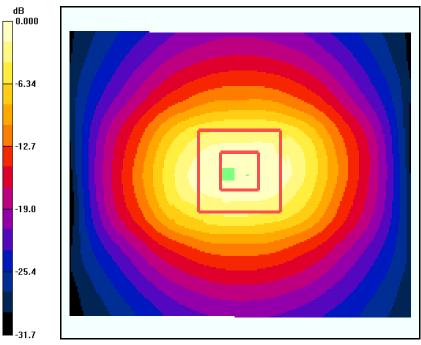
Applicant:	Kyocera
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Date: 12/21/2010

2450Mhz Validation (in Muscle) @ 20dBm Probe 3078, DAE 602 and Dipole 776 Communication System: CW, Frequency: 2450 MHz, Duty Cycle: 1:1 Medium: M2450,Medium parameters used (interpolated): f = 2450 MHz; σ = 2.04 mho/m; ϵ_r = 51; ρ = 1000 kg/m³ Phantom: SAM 12,Phantom section: Flat Section **DASY4 Configuration:** Probe: ES3DV3 - SN3078, ConvF(4.13, 4.13, 4.13), Calibrated: 6/22/2009 Sensor-Surface: 4mm (Mechanical Surface Detection), Electronics: DAE4 Sn602,Calibrated: 7/14/2010 Measurement SW: DASY4, V4.7 Build 80 Postprocessing SW: SEMCAD, V1.8 Build 186 **Temperature:**Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

2450MHz Validation @20dBm/Area Scan (51x61x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 7.47 mW/g

2450MHz Validation @20dBm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 56.5 V/m; Power Drift = -0.135 dB Peak SAR (extrapolated) = 12.4 W/kg SAR(1 g) = 5.59 mW/g; SAR(10 g) = 2.5 mW/g Maximum value of SAR (measured) = 6.36 mW/g



 $0 \, dB = 6.36 \, mW/g$



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