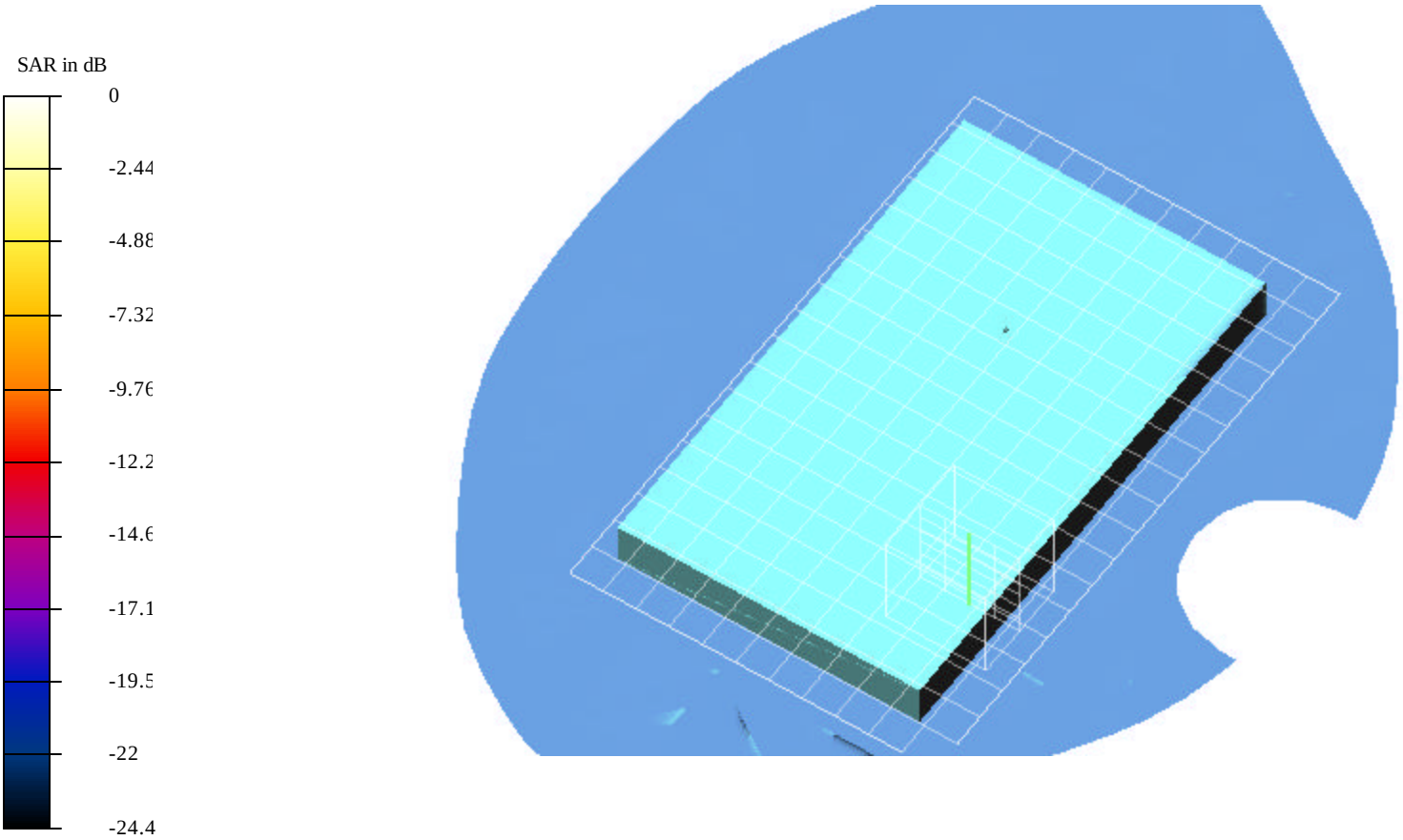
Date/Time: 02/25/03 12:37:06

Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.998mW.da4

EUT Setup Configuration 1



Date/Time: 02/25/03 12:37:06

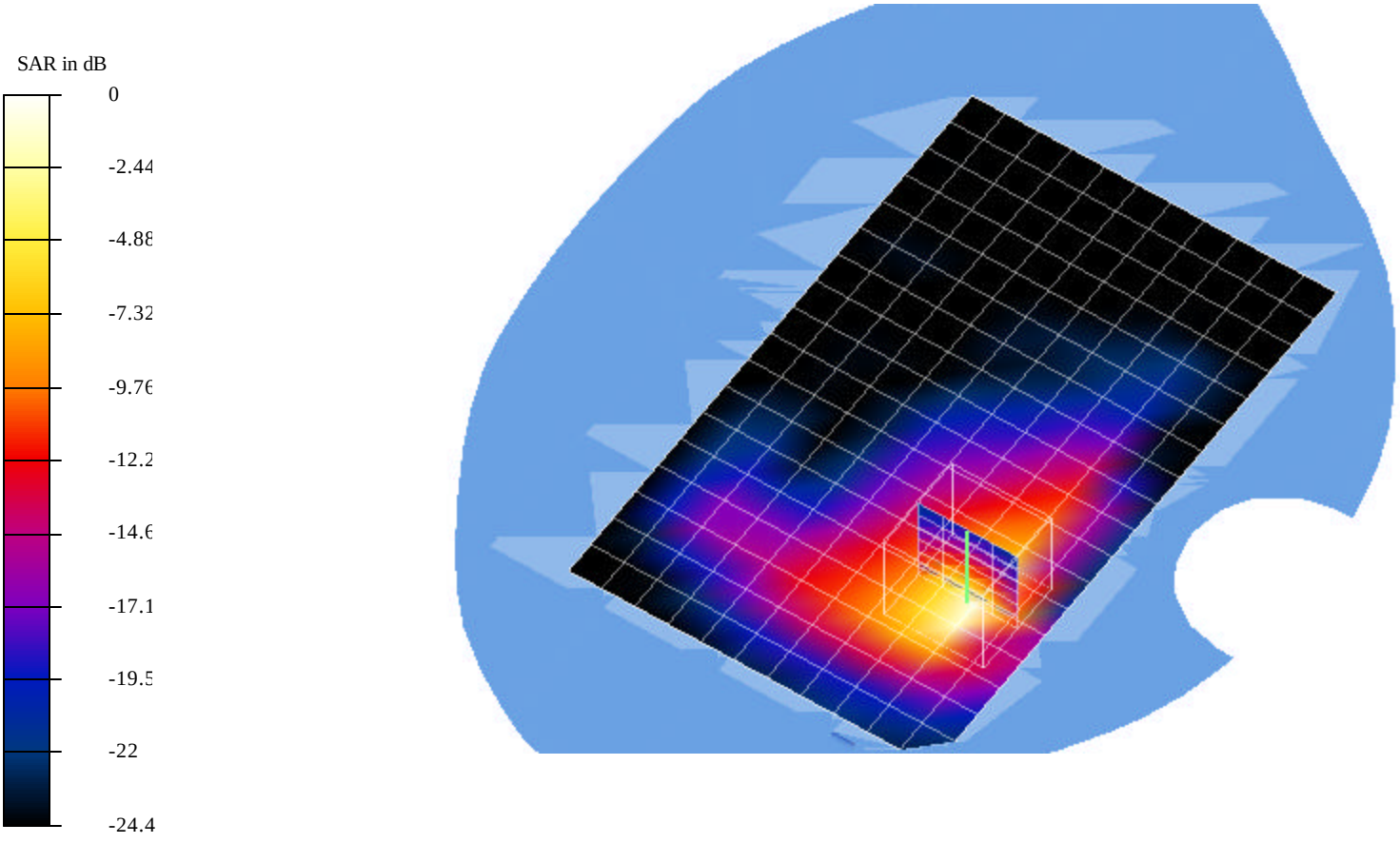
Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.998mW.da4

DUT: Samsung, model S160 Type & Serial Number: S160
Program: EUT Setup Configuration 1; Low channel (2412MHz)

Communication System: DSSS; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP: 1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 1.9 V/m
Peak SAR = 3.04 mW/g
SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.335 mW/g
Power Drift = -0.12 dB
Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 13:44:36

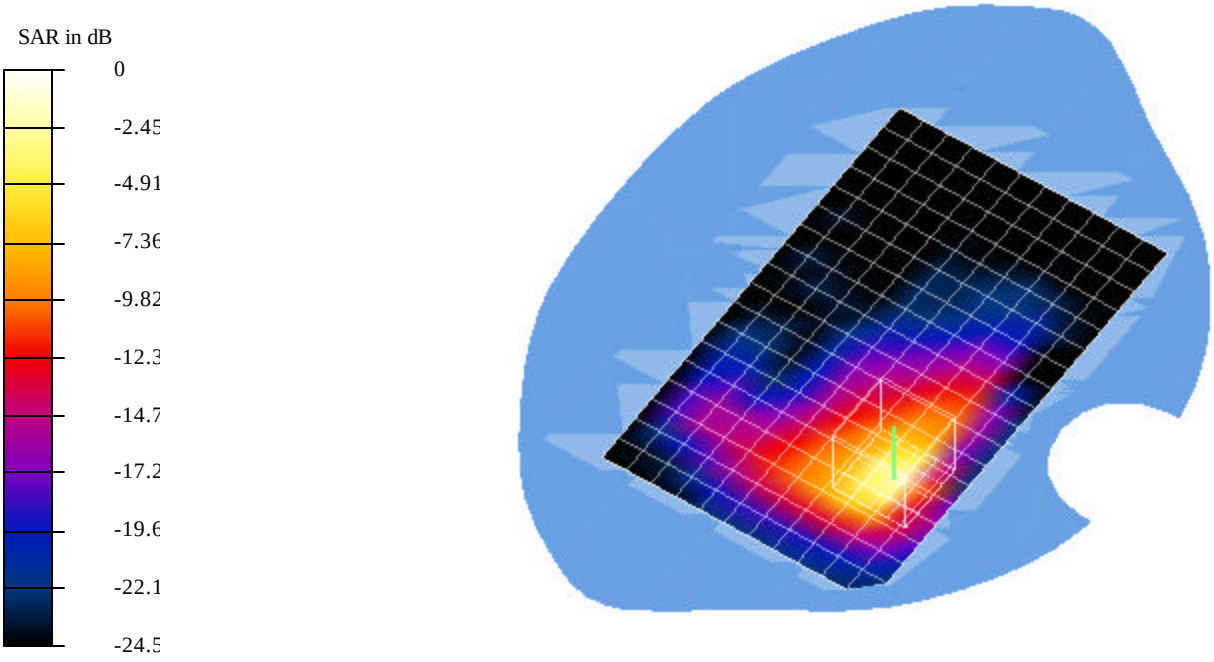
Test Laboratory: Compliance Certification Services
File Name: 2M-CH_0.934mW.da4

DUT: Samsung, model S160 Type & Serial Number: S160
Program: EUT Setup Configuration 1; Middle channel (2437MHz)

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP: 1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 3.23 V/m
Peak SAR = 2.8 mW/g
SAR(1 g) = 0.934 mW/g; SAR(10 g) = 0.321 mW/g
Power Drift = -0.01 dB
Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 14:50:34

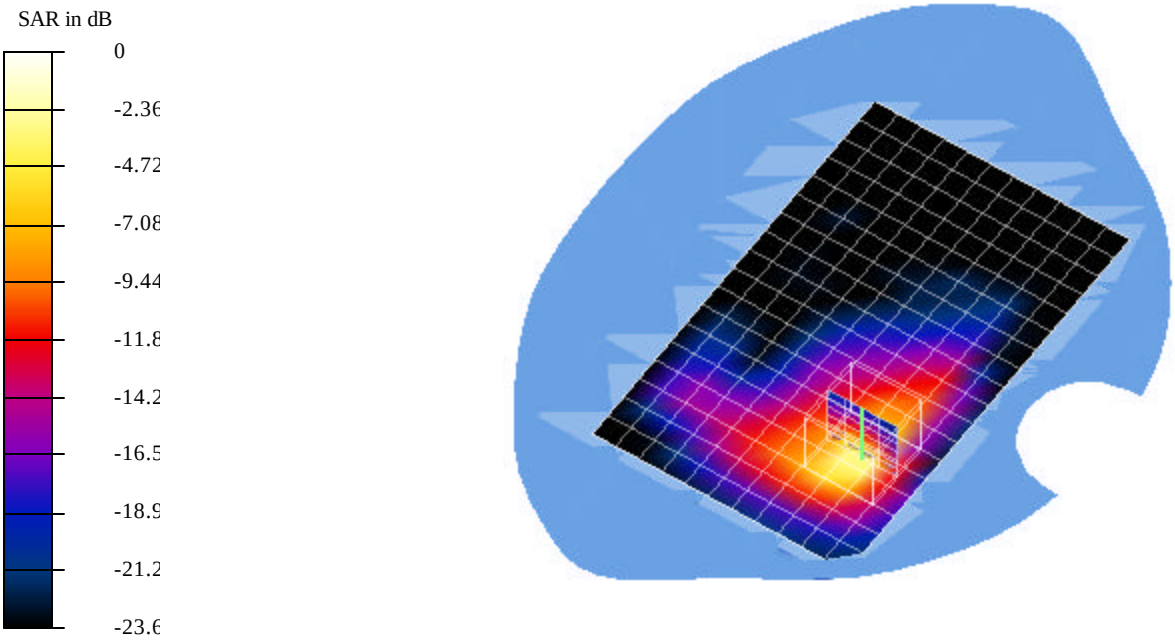
Test Laboratory: Compliance Certification Services
File Name: 3H-CH_0.864mW.da4

DUT: Samsung, model S160 Type & Serial Number: S160
Program: EUT Setup Configuration 1; High channel (2462MHz)

Communication System: DSSS; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP: 1050
- Software: DASY4, V4.0 Build 51

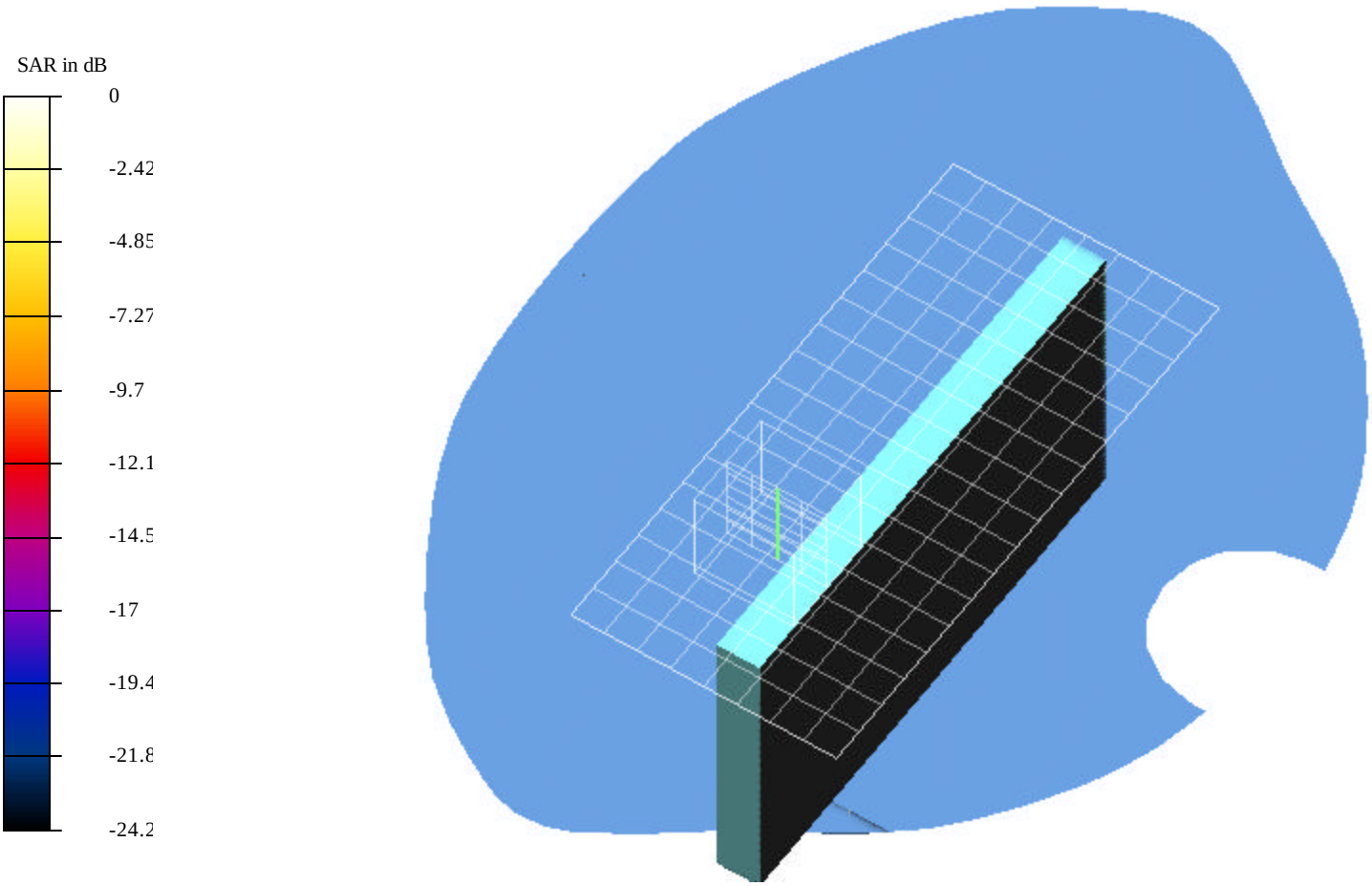
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 1.76 V/m
Peak SAR = 2.64 mW/g
SAR(1 g) = 0.864 mW/g; SAR(10 g) = 0.291 mW/g
Power Drift = 0.02 dB
Area Scan (12x19x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 15:50:06

Test Laboratory: Compliance Certification Services
File Name: 1L-CH_1.19mW.da4

EUT Setup Configuration 2



Date/Time: 02/25/03 15:50:06

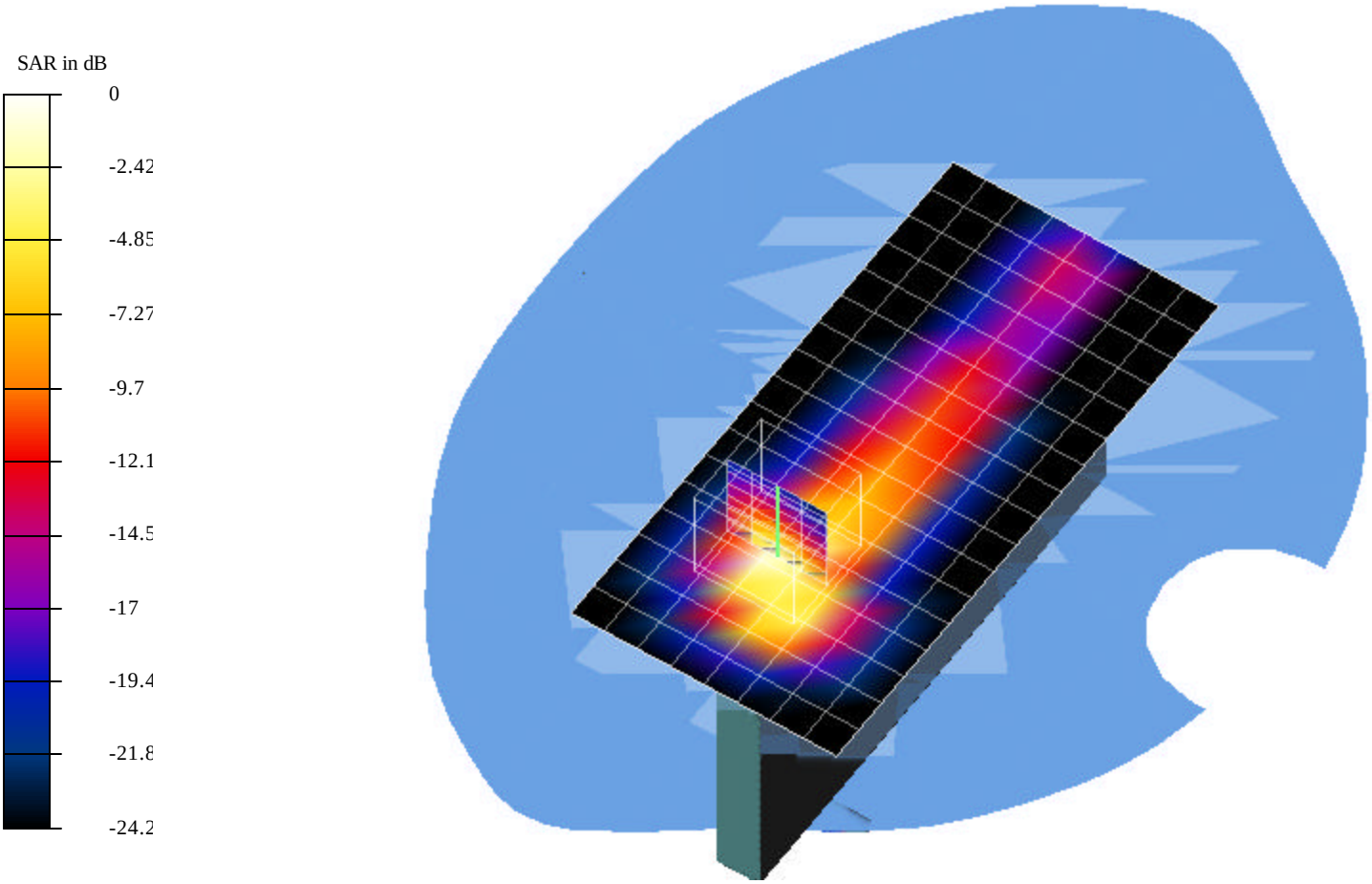
Test Laboratory: Compliance Certification Services
File Name: 1L-CH_1.19mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 2; Low channel (2412MHz)

Communication System: DSSS; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 8.69 V/m
Peak SAR = 3.67 mW/g
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.426 mW/g
Power Drift = -0.03 dB
Area Scan (9x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 16:47:36

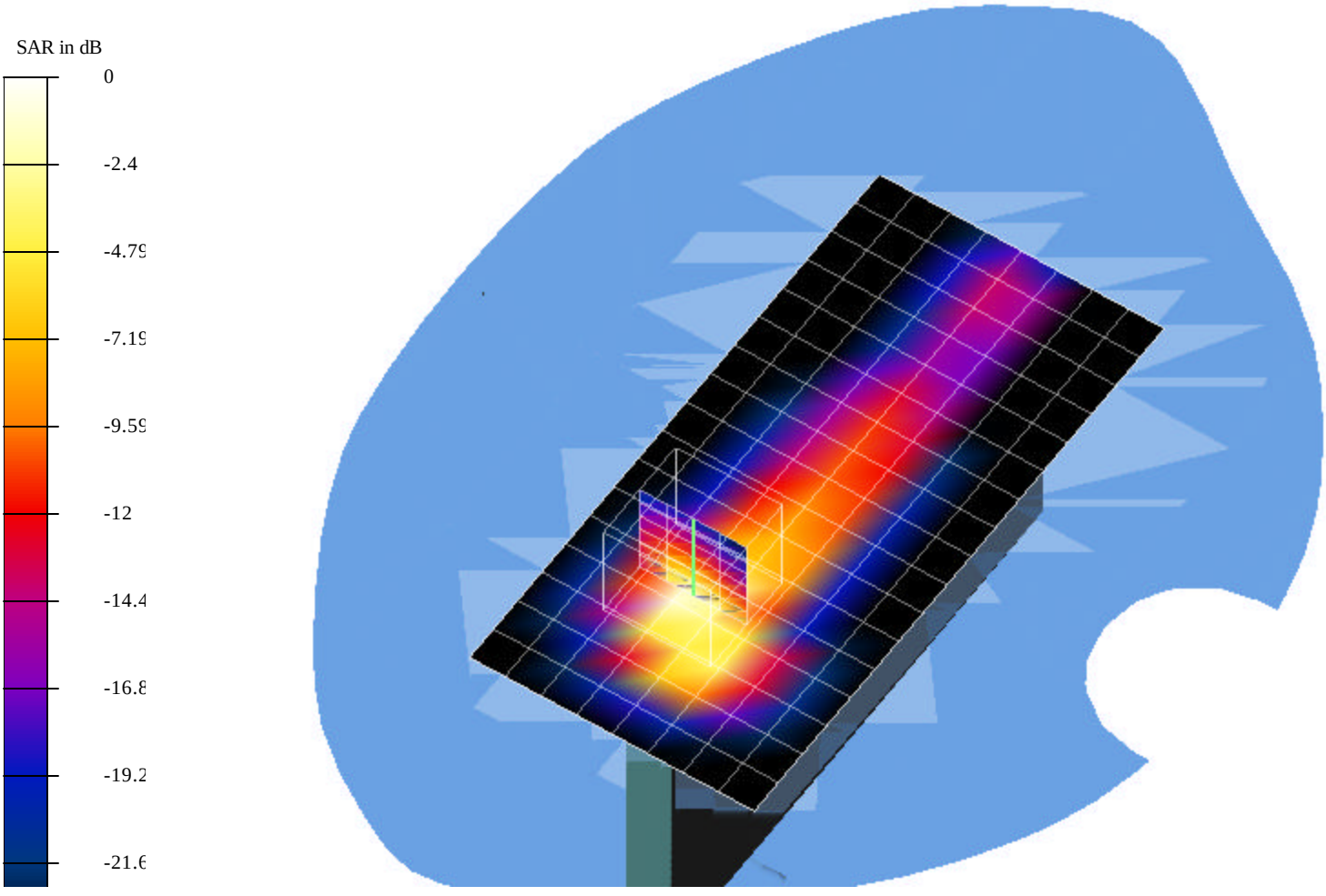
Test Laboratory: Compliance Certification Services
File Name: 2M-CH_1.16mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 2; Middle channel (2437MHz)

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 9.08 V/m
Peak SAR = 3.55 mW/g
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.417 mW/g
Power Drift = -0.13 dB
Area Scan (9x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 17:39:00

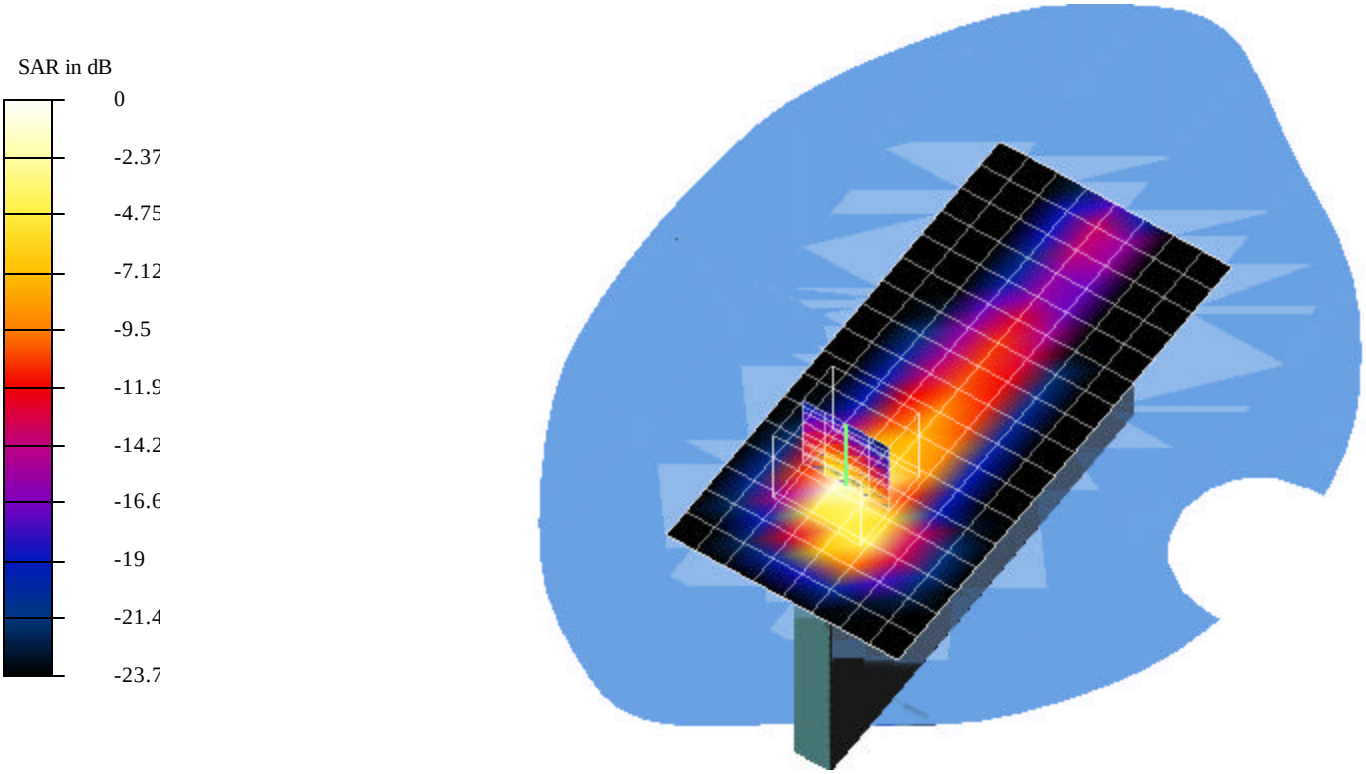
Test Laboratory: Compliance Certification Services
File Name: 3H-CH_1.09mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 2; High channel (2462MHz)

Communication System: DSSS; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

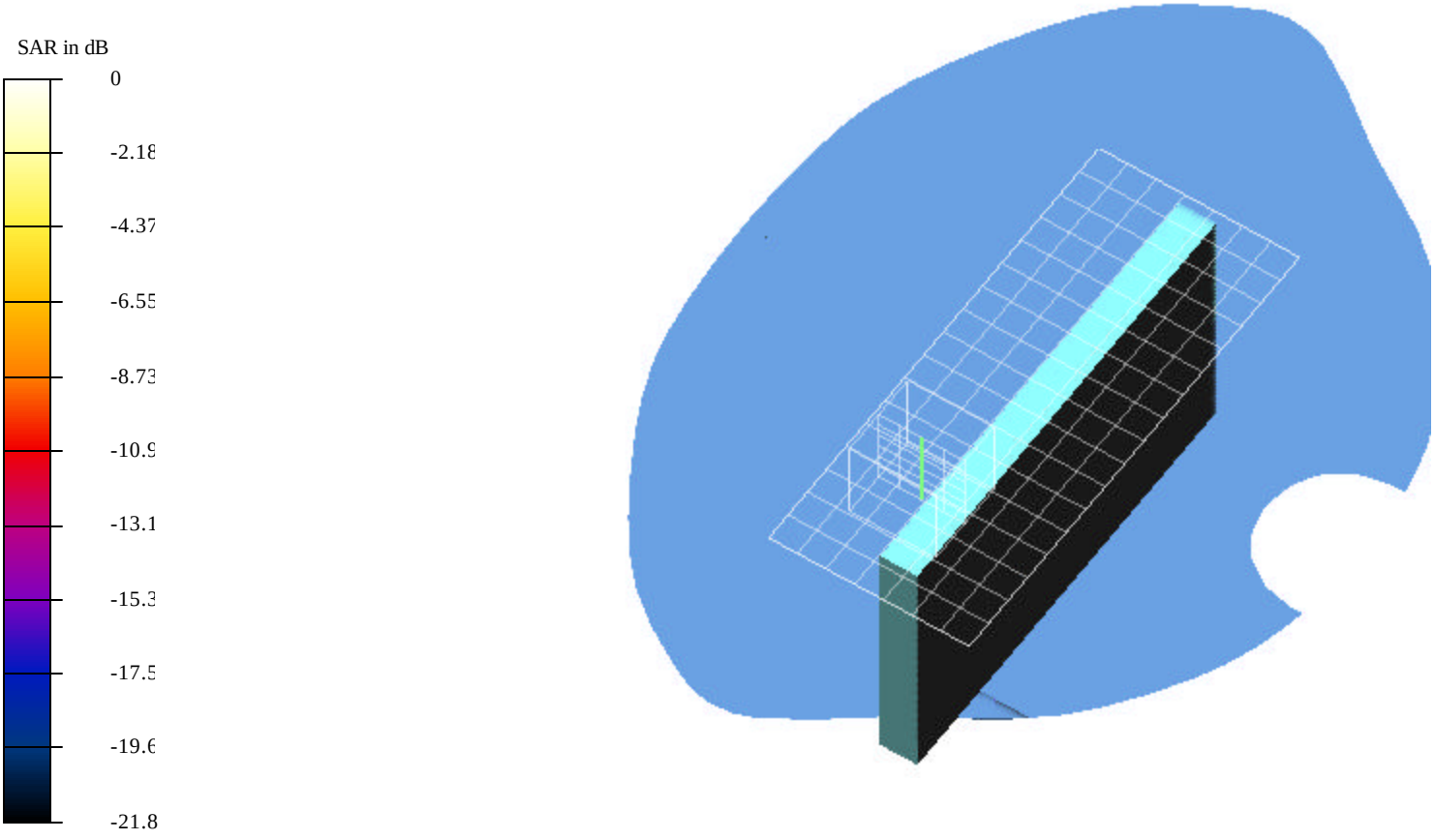
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 8.26 V/m
Peak SAR = 3.33 mW/g
SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.393 mW/g
Power Drift = -0.12 dB
Area Scan (9x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 18:37:58

Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.263mW.da4

EUT Setup Configuration 3



Date/Time: 02/25/03 18:37:58

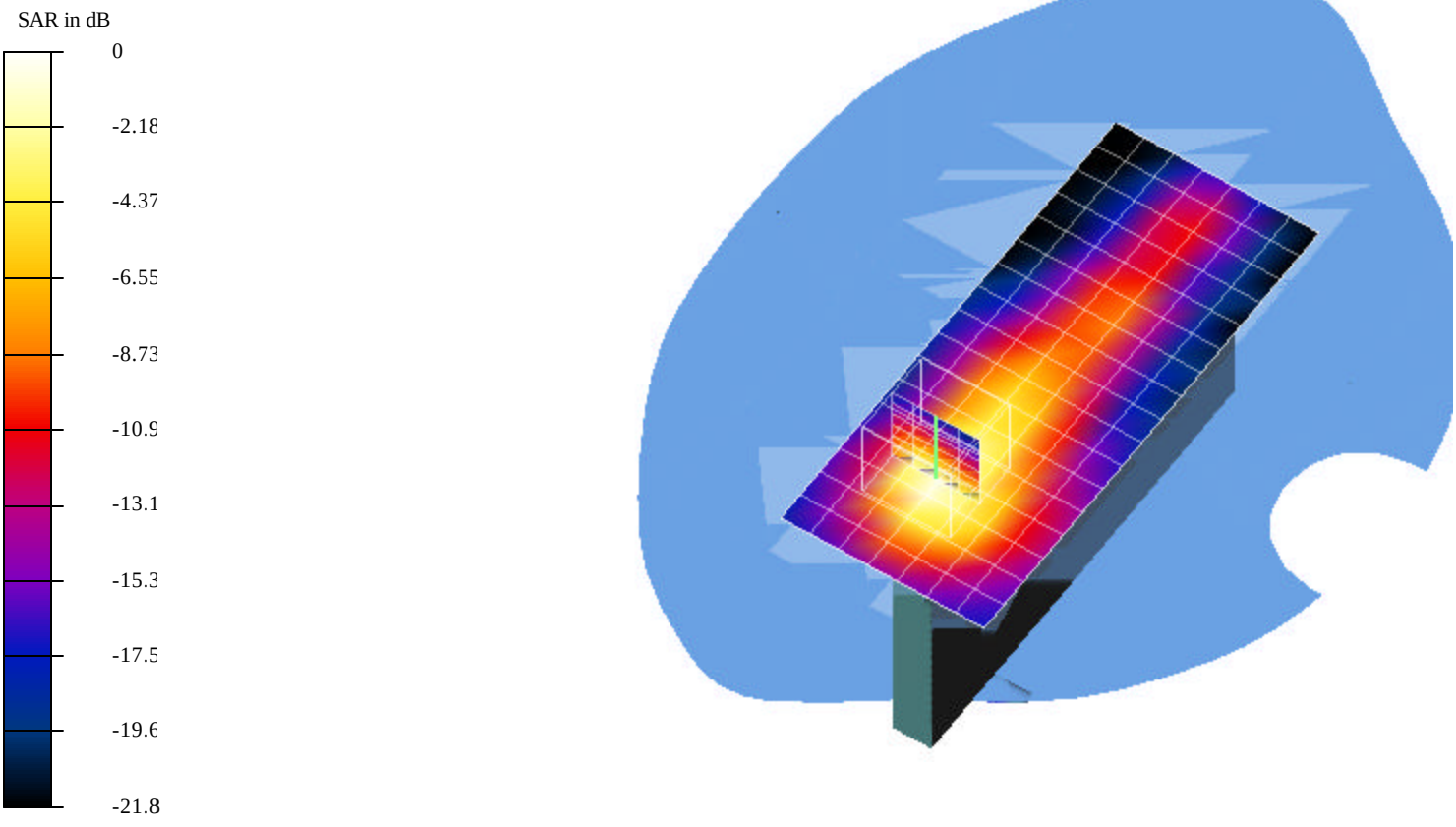
Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.263mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 3; Low channel (2412MHz)

Communication System: DSSS; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 4.86 V/m
Peak SAR = 0.7 mW/g
SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.107 mW/g
Power Drift = -0.13 dB
Area Scan (8x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 19:42:18

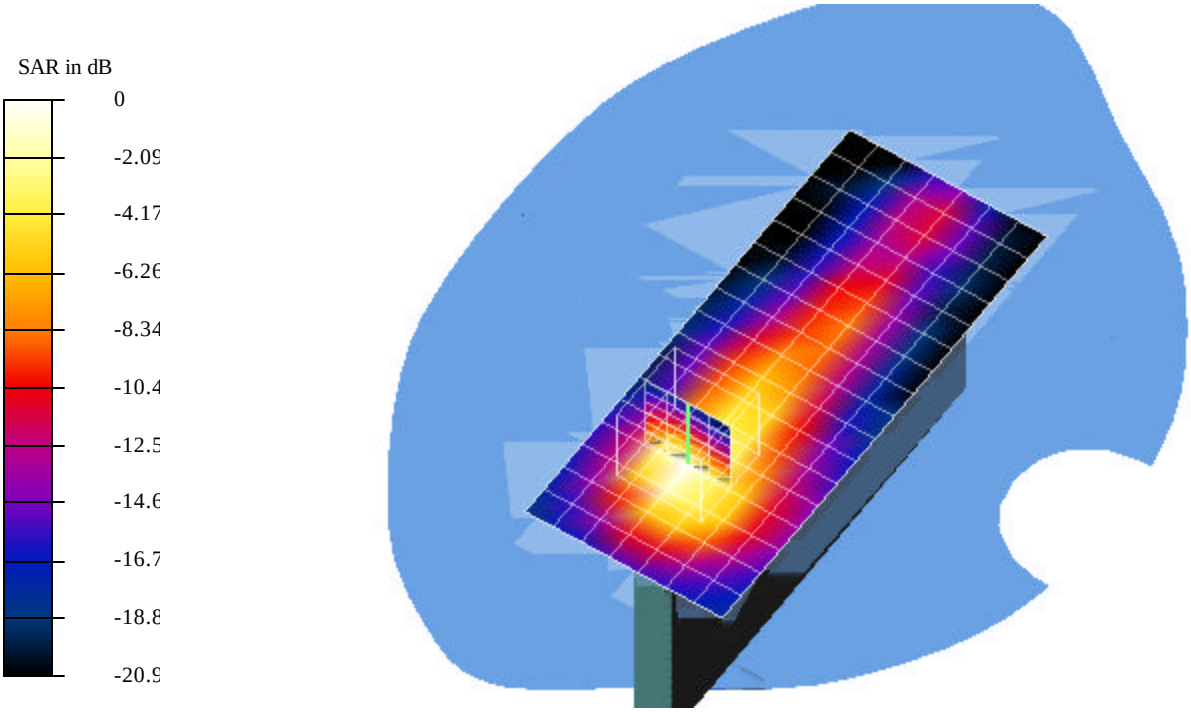
Test Laboratory: Compliance Certification Services
File Name: 2M-CH_0.258mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 3; Middle channel (2437MHz)

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 4.77 V/m
Peak SAR = 0.717 mW/g
SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.104 mW/g
Power Drift = -0.04 dB
Area Scan (8x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/25/03 20:43:42

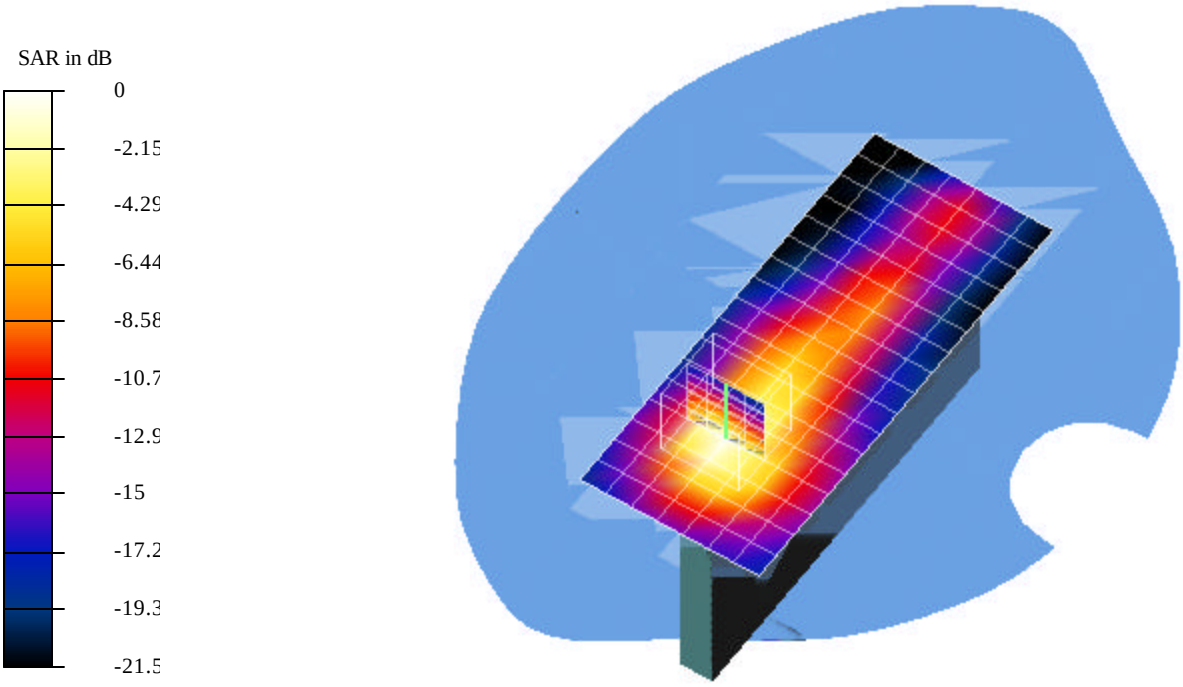
Test Laboratory: Compliance Certification Services
File Name: 3H-CH_0.229mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 3; High channel (2462MHz)

Communication System: DSSS; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 2.0199 mho/m, ε = 50.69, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

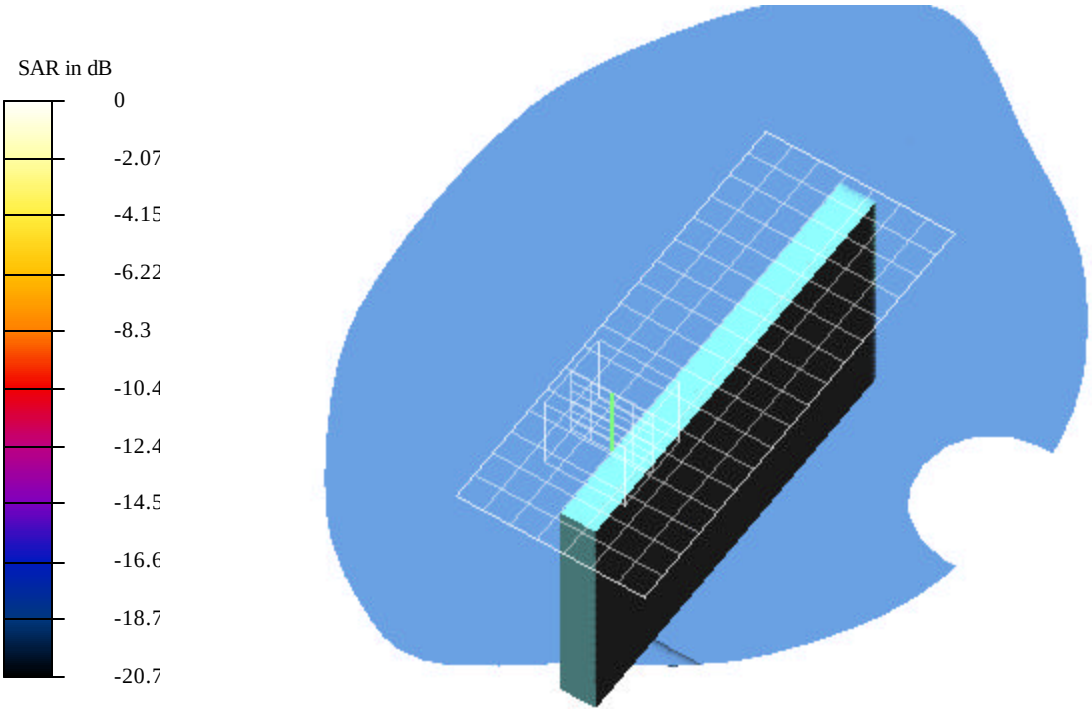
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 4.55 V/m
Peak SAR = 0.62 mW/g
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.0936 mW/g
Power Drift = -0.01 dB
Area Scan (8x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 12:38:48

Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.301mW.da4

EUT Setup Configuration 4



Date/Time: 02/26/03 12:38:48

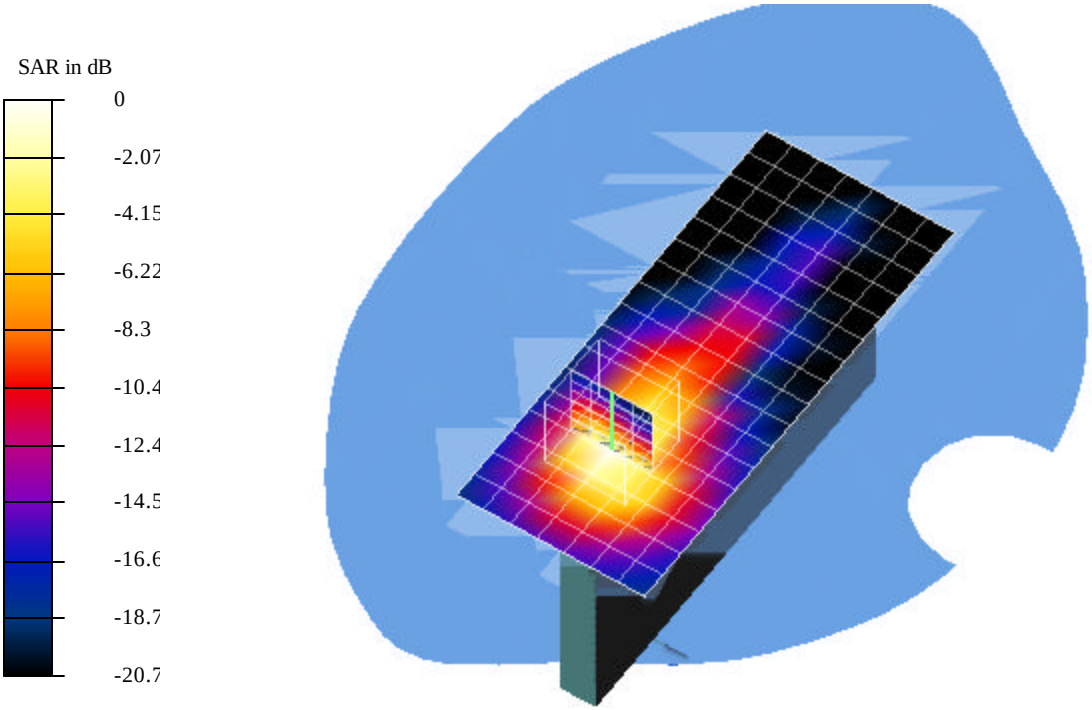
Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.301mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 4; Low channel (2412MHz)

Communication System: DSSS; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 1.9954 mho/m, ε = 50.49, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 4.24 V/m
Peak SAR = 0.844 mW/g
SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.123 mW/g
Power Drift = -0.01 dB
Area Scan (8x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 13:41:20

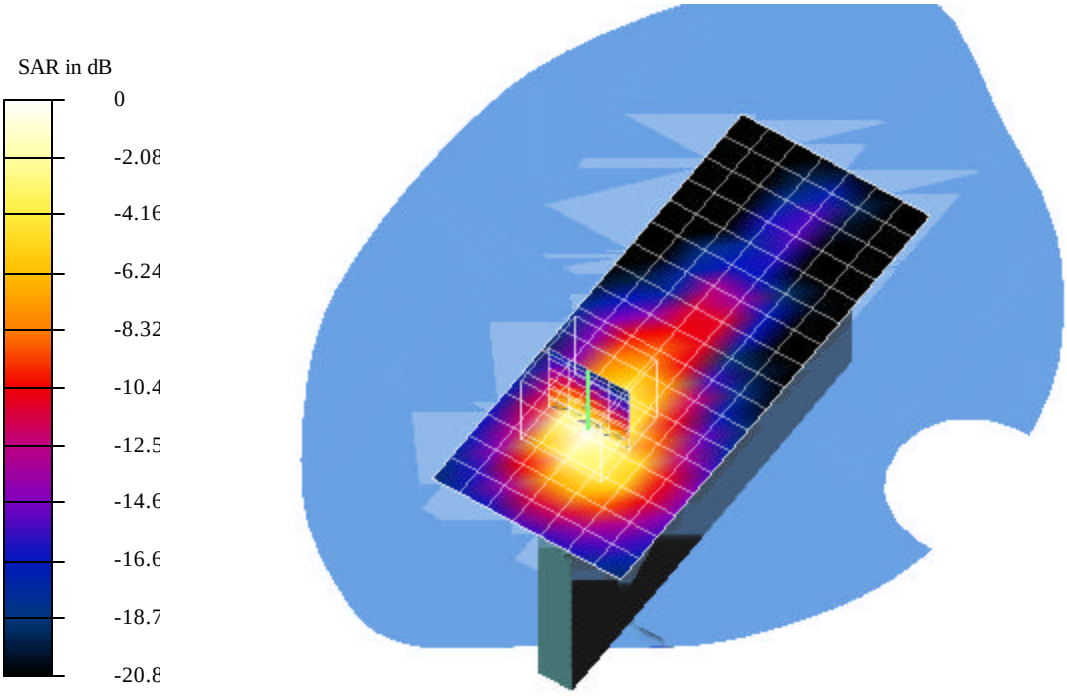
Test Laboratory: Compliance Certification Services
File Name: 2M-CH_0.3mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 4; Middle channel (2437MHz)

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 1.9954 mho/m, ε = 50.49, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 4.36 V/m
Peak SAR = 0.819 mW/g
SAR(1 g) = 0.3 mW/g; SAR(10 g) = 0.124 mW/g
Power Drift = -0.09 dB
Area Scan (8x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 14:55:42

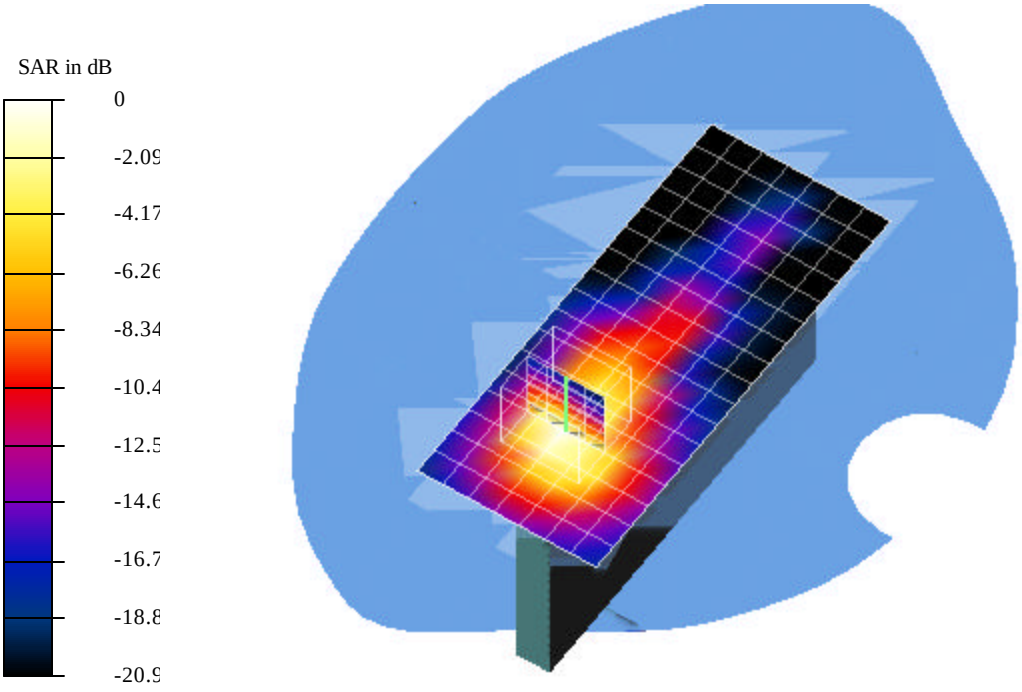
Test Laboratory: Compliance Certification Services
File Name: 3H-CH_0.284mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 4; High channel (2462MHz)

Communication System: DSSS; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 1.9954 mho/m, ε = 50.49, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

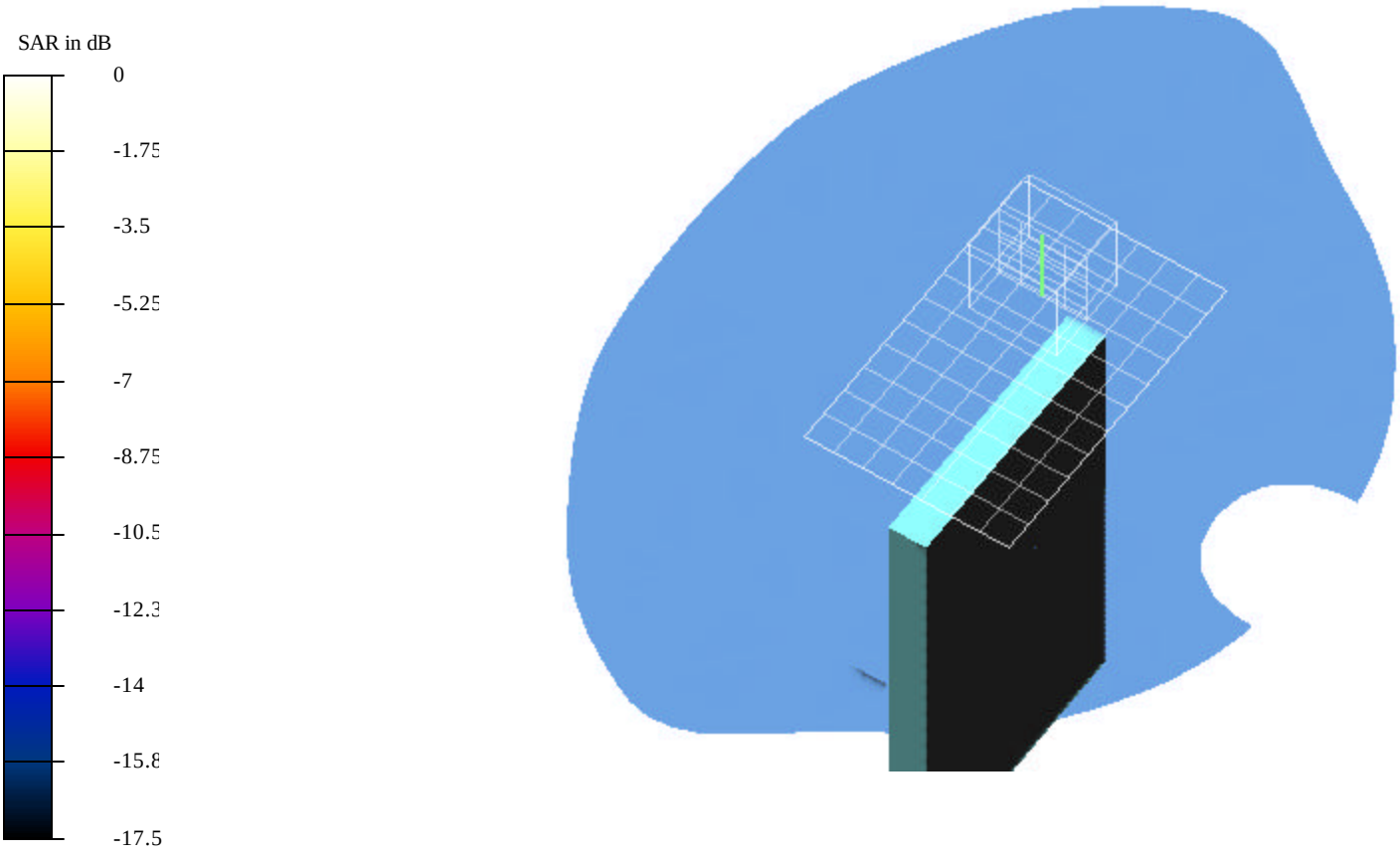
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 4.2 V/m
Peak SAR = 0.788 mW/g
SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.117 mW/g
Power Drift = 0.04 dB
Area Scan (8x18x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 15:48:00

Test Laboratory: Compliance Certification Services

EUT Setup Configuration 5



Date/Time: 02/26/03 15:48:00

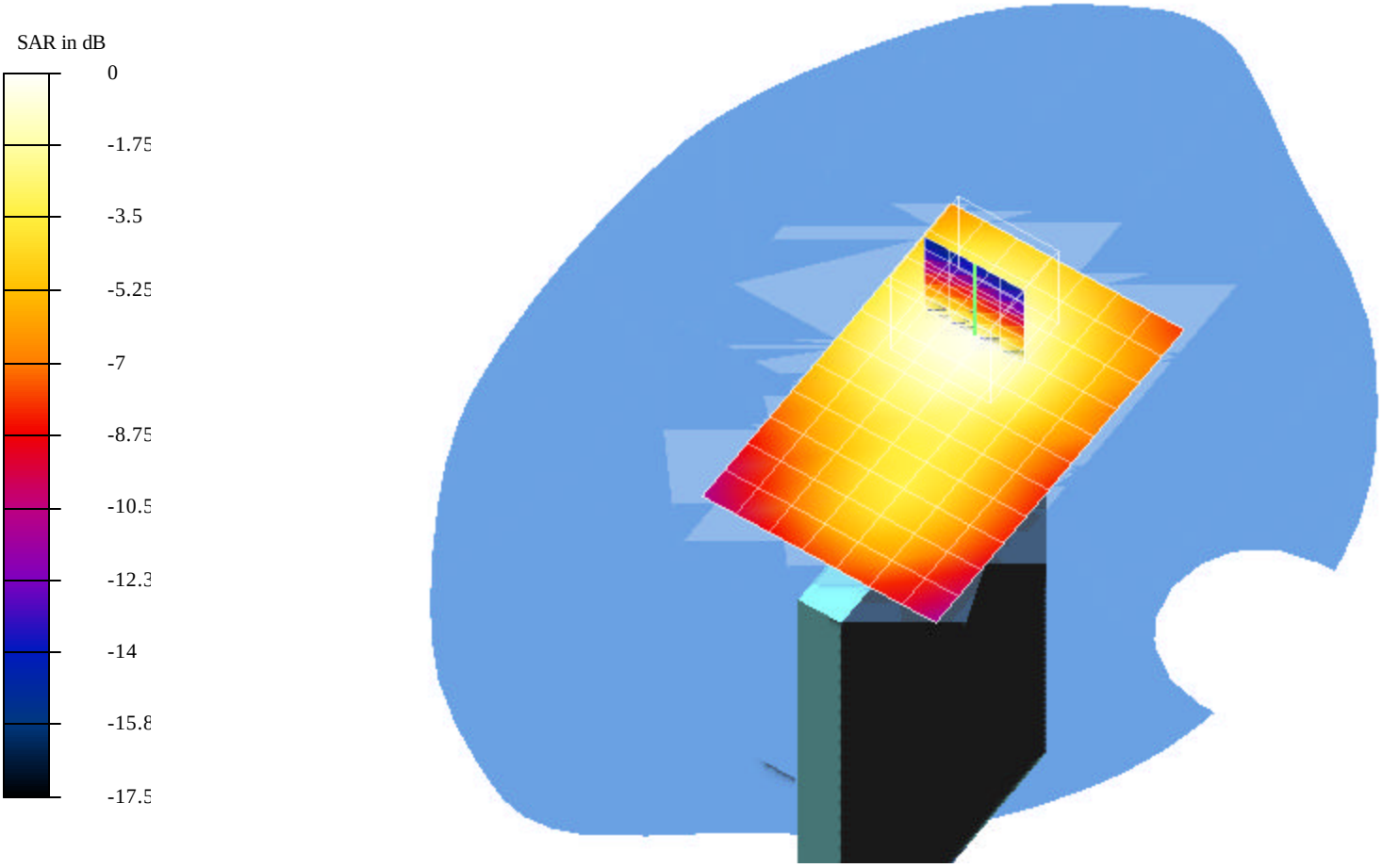
Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.0275mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 5; Low channel (2412MHz)

Communication System: DSSS; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 1.9954 mho/m, ε = 50.49, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 2.78 V/m
Peak SAR = 0.0595 mW/g
SAR(1 g) = 0.0275 mW/g; SAR(10 g) = 0.0148 mW/g
Power Drift = -0.02 dB
Area Scan (8x12x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 16:59:34

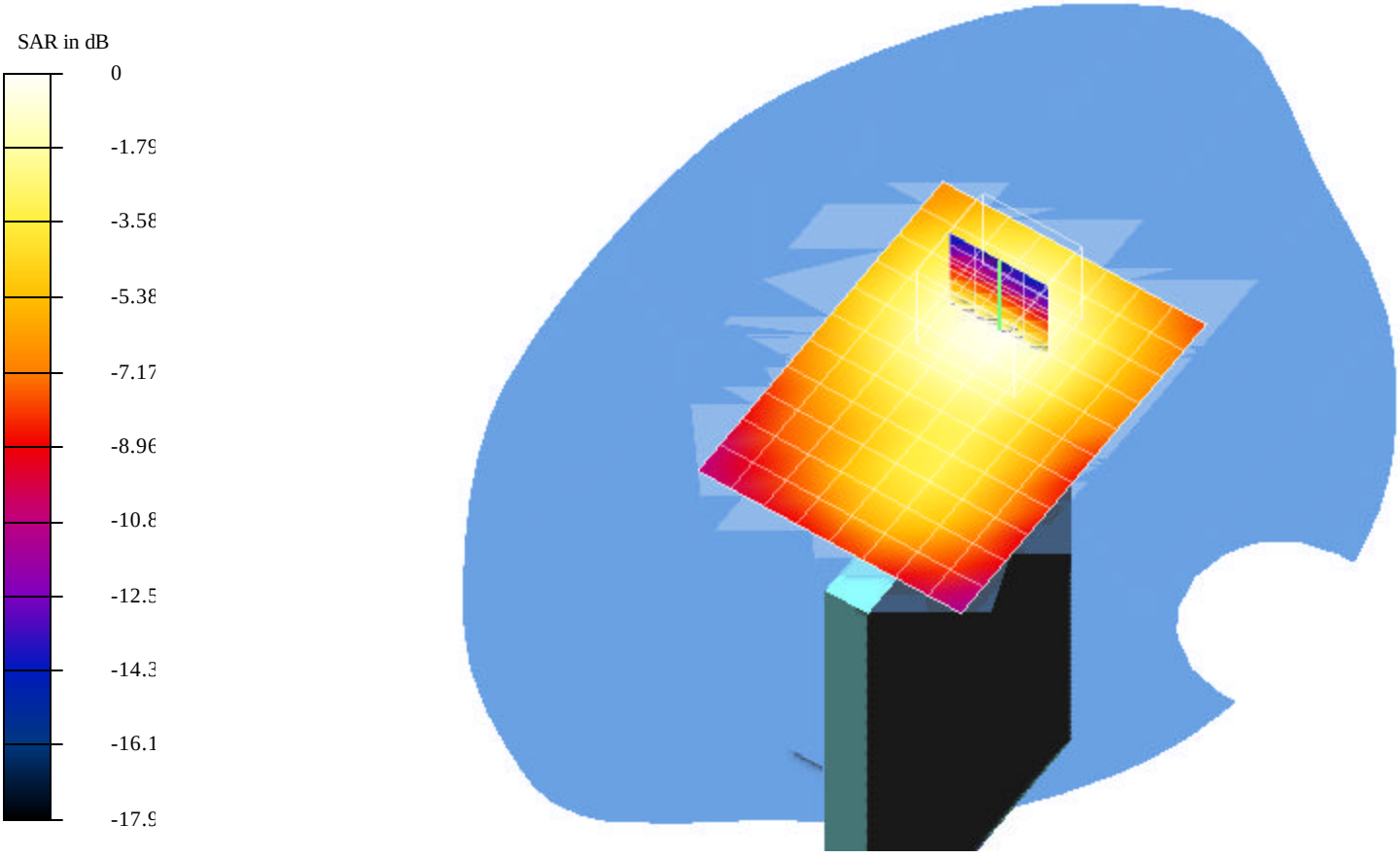
Test Laboratory: Compliance Certification Services
File Name: 2M-CH_0.0258mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 5; Middle channel (2437MHz)

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 1.9954 mho/m, ε = 50.49, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 2.67 V/m
Peak SAR = 0.0584 mW/g
SAR(1 g) = 0.0258 mW/g; SAR(10 g) = 0.0138 mW/g
Power Drift = -0.05 dB
Area Scan (9x12x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 17:54:56

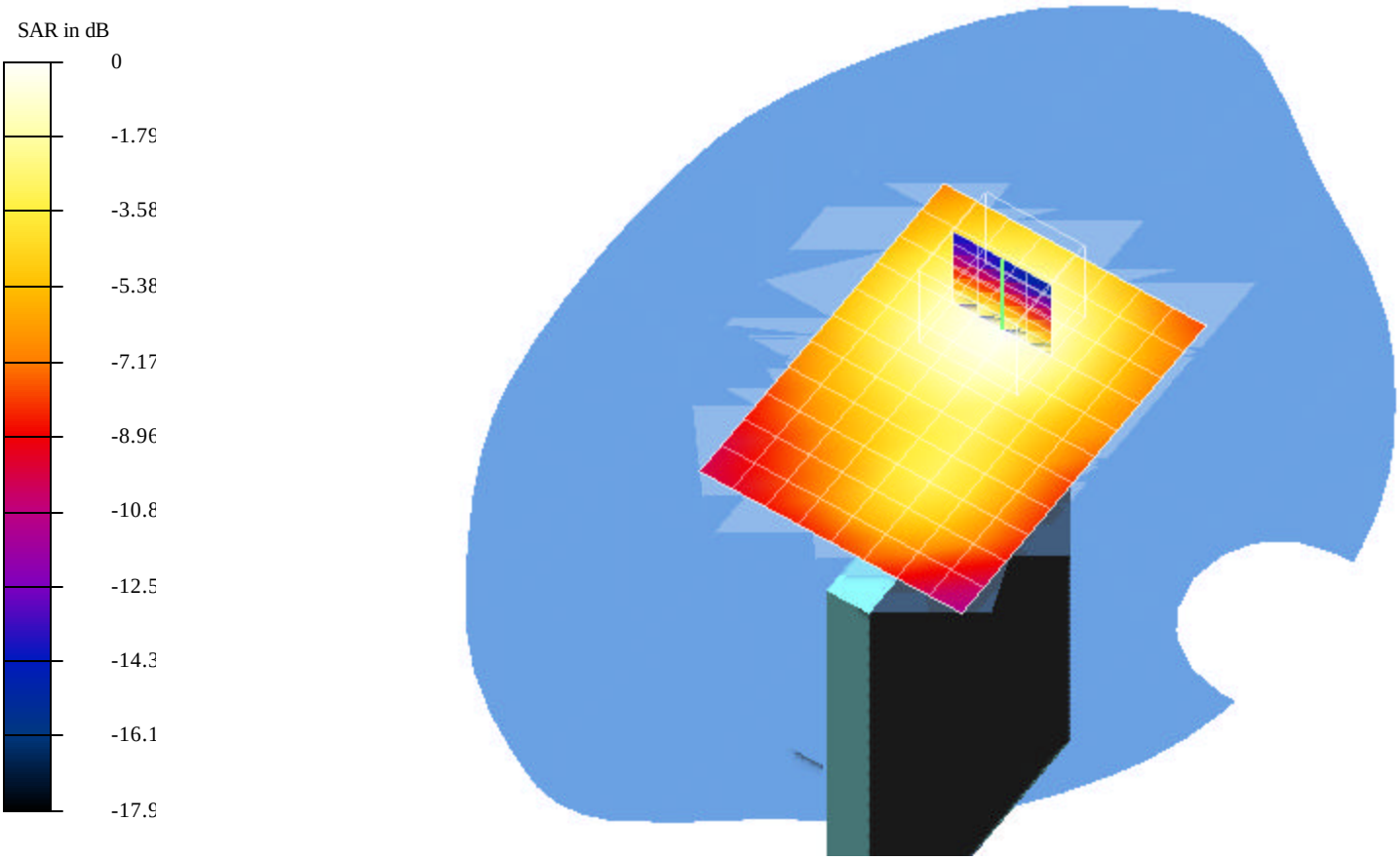
Test Laboratory: Compliance Certification Services
File Name: 3H-CH_0.0253mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 5; High channel (2462MHz)

Communication System: DSSS; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Muscle 2450 MHz (σ = 1.9954 mho/m, ε = 50.49, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2 - TP:1050
- Software: DASY4, V4.0 Build 51

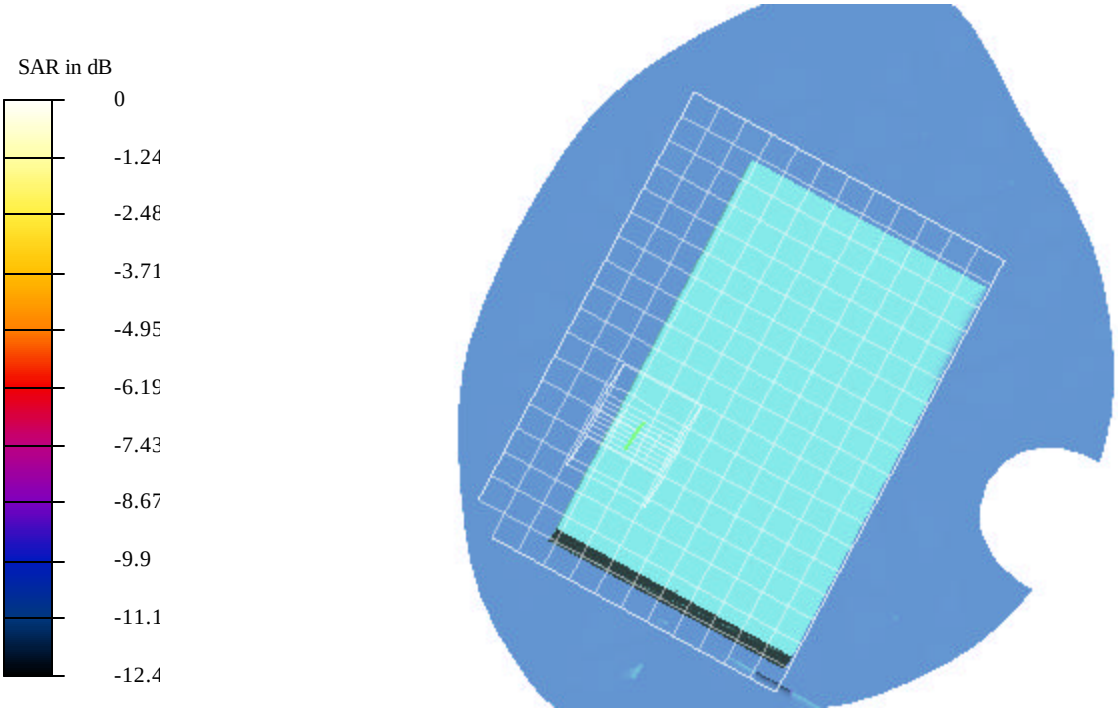
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 2.67 V/m
Peak SAR = 0.0569 mW/g
SAR(1 g) = 0.0253 mW/g; SAR(10 g) = 0.0133 mW/g
Power Drift = -0.02 dB
Area Scan (9x12x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 18:59:04

Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.0148mW.da4

EUT Setup Configuration 6 (Face Held)



Date/Time: 02/26/03 18:59:04

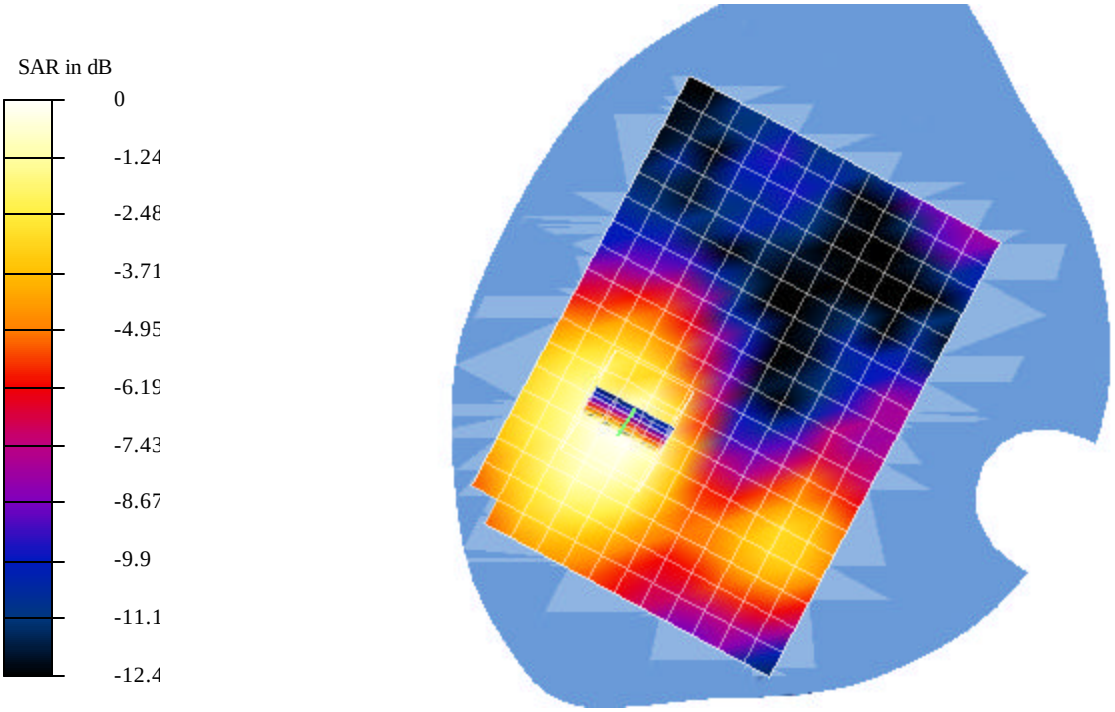
Test Laboratory: Compliance Certification Services
File Name: 1L-CH_0.0148mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 6 (Face Held); Low channel (2412 MHz)

Communication System: DSSS; Frequency: 2412 MHz; Duty Cycle: 1:1
Medium: Head 2450 MHz (σ = 1.8836 mho/m, ε = 39.73, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(5.1, 5.1, 5.1); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 1 - TP: 1185
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 0.764 V/m
Peak SAR = 0.0267 mW/g
SAR(1 g) = 0.0148 mW/g; SAR(10 g) = 0.00858 mW/g
Power Drift = -0.12 dB
Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 19:05:42

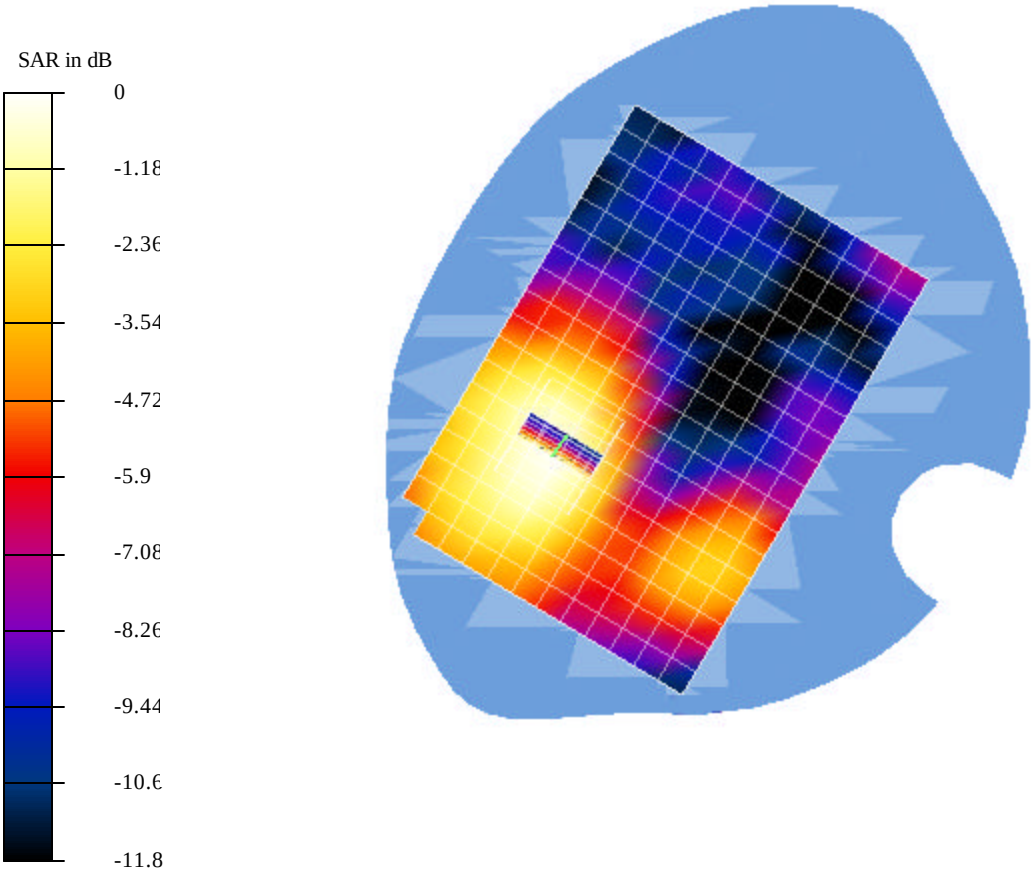
Test Laboratory: Compliance Certification Services
File Name: 2M-CH_0.0115mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 6 (Face Held); Middle channel (2437 MHz)

Communication System: DSSS; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: Head 2450 MHz (σ = 1.8836 mho/m, ε = 39.73, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(5.1, 5.1, 5.1); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 1 - TP: 1185
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 0.612 V/m
Peak SAR = 0.0196 mW/g
SAR(1 g) = 0.0115 mW/g; SAR(10 g) = 0.00679 mW/g
Power Drift = -0.13 dB
Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm



Date/Time: 02/26/03 20:55:32

Test Laboratory: Compliance Certification Services
File Name: 3H-CH_0.0109mW.da4

DUT: Samsung Type & Serial Number: S160
Program: EUT Setup Configuration 6 (Face Held); High channel (2462 MHz)

Communication System: DSSS; Frequency: 2462 MHz; Duty Cycle: 1:1
Medium: Head 2450 MHz (σ = 1.8836 mho/m, ε = 39.73, ρ = 1000 kg/m3)
Phantom section: FlatSection

DASY4 Configuration:
- Probe: ET3DV6 - SN1577; ConvF(5.1, 5.1, 5.1); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 1 - TP: 1185
- Software: DASY4, V4.0 Build 51

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm
Reference Value = 0.677 V/m
Peak SAR = 0.0203 mW/g
SAR(1 g) = 0.0109 mW/g; SAR(10 g) = 0.00632 mW/g
Power Drift = -0.1 dB
Area Scan (13x19x1): Measurement grid: dx=10mm, dy=10mm