



ESTECH Co., Ltd.

Rm.1015, World Venture Center II,
426-5, Gasan-dong, Geumcheon-gu,
Seoul, 153-803, Korea

TEL: 82-2-867-3201
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APPENDIX D : SAR Test Data



ESTECH Co., Ltd.

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TEL: 82-2-867-3201
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Date/Time: 2005-11-17 14:36:21

Test Laboratory: ESTECH

CH1013 BODY WITH ADAPTER

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used: $f = 825$ MHz; $\sigma = 0.948$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 22 °C, Humidity : 46%

Area Scan (41x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.749 mW/g

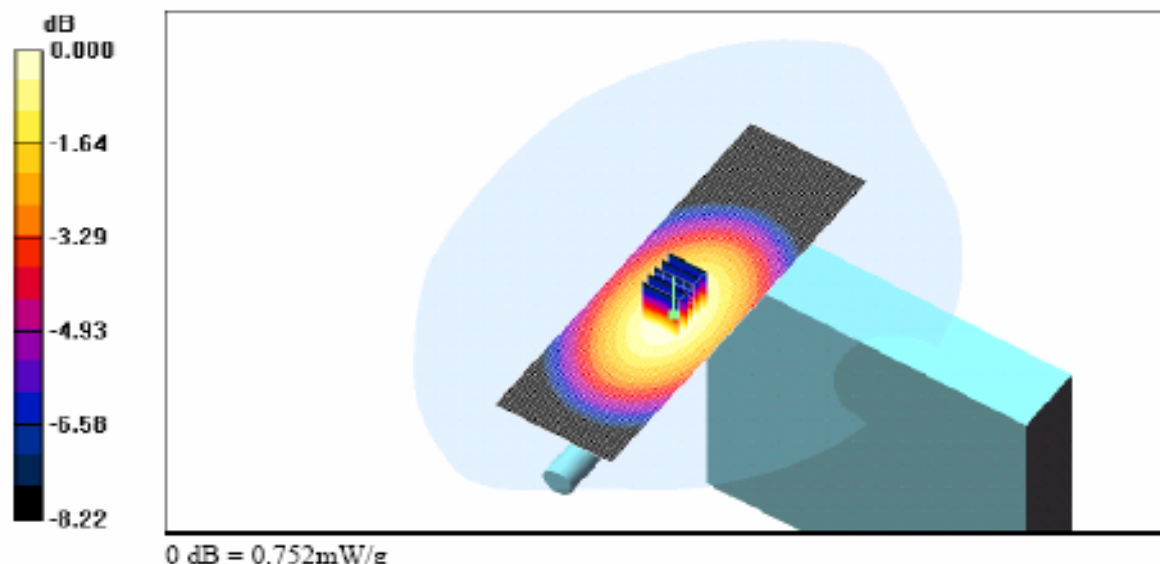
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.4 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 0.929 W/kg

SAR(1 g) = 0.708 mW/g

Maximum value of SAR (measured) = 0.752 mW/g





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Date/Time: 2005-11-17 13:59:44

Test Laboratory: ESTECH

CH384 BODY WITH ADAPTER

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 23 °C, Humidity : 45%

Area Scan (41x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.732 mW/g

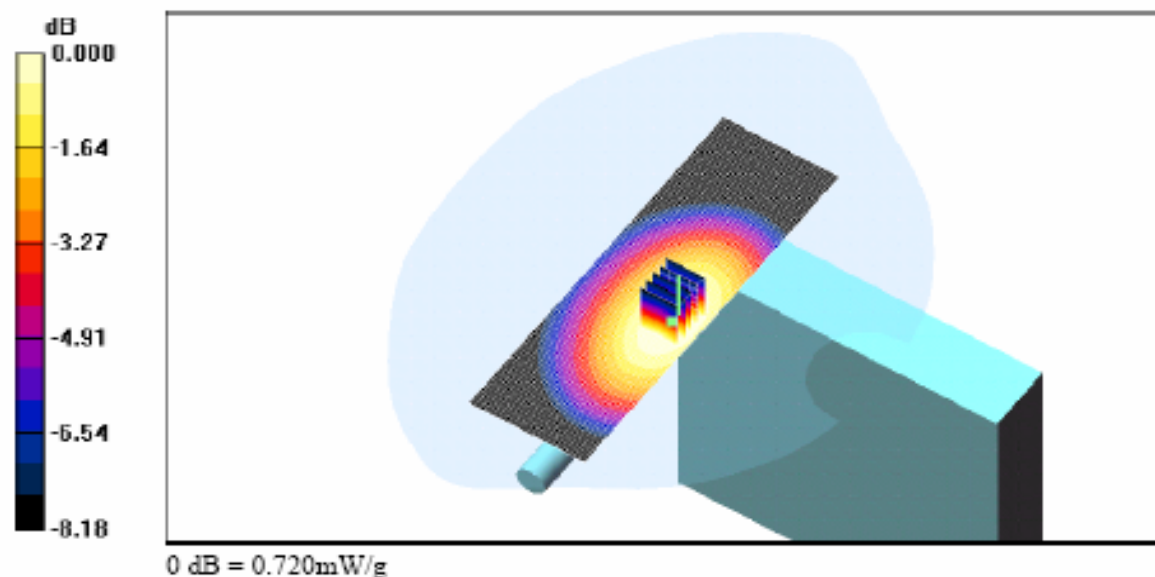
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.2 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 0.888 W/kg

SAR(1 g) = 0.679 mW/g

Maximum value of SAR (measured) = 0.720 mW/g





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Date/Time: 2005-11-17 15:03:34

Test Laboratory: ESTECH

CH777 BODY WITH ADAPTER

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 848.31 \text{ MHz}$; $\sigma = 0.971 \text{ mho/m}$; $\epsilon_r =$

54.1 ; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 22 °C, Humidity : 46%

Area Scan (41x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.646 mW/g

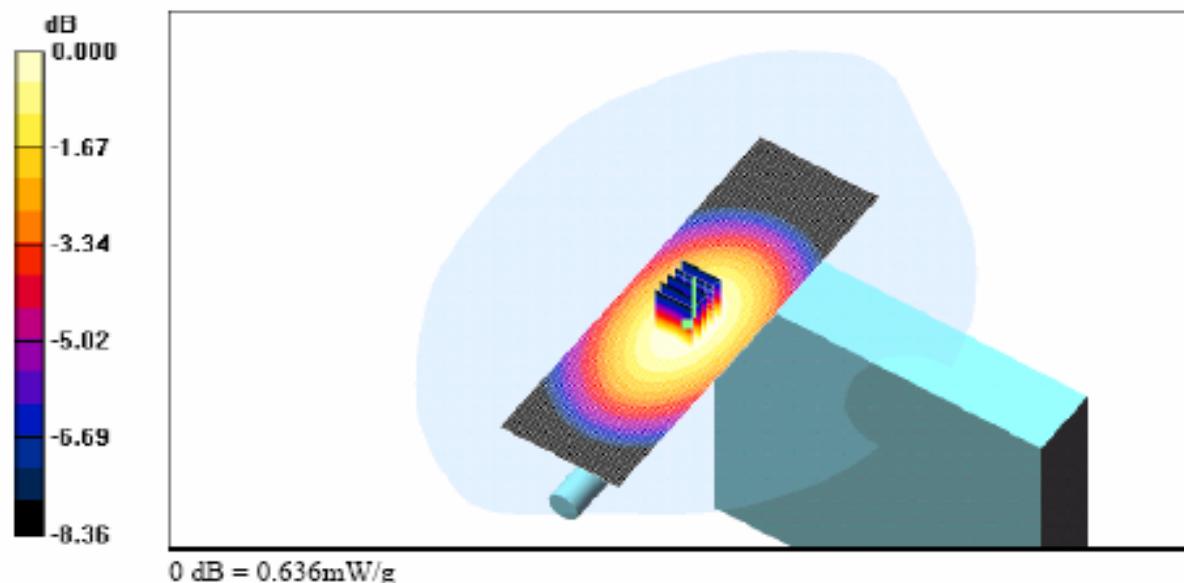
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.6 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.780 W/kg

SAR(1 g) = 0.598 mW/g

Maximum value of SAR (measured) = 0.636 mW/g





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Date/Time: 2005-11-17 16:26:16

Test Laboratory: ESTECH

CH1013 BODY WITHOUT ADAPTER

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used: $f = 825$ MHz; $\sigma = 0.948$ mho/m; $\epsilon_r = 54.3$; $\rho = 1000$

kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 22 °C, Humidity : 46%

Area Scan (41x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.772 mW/g

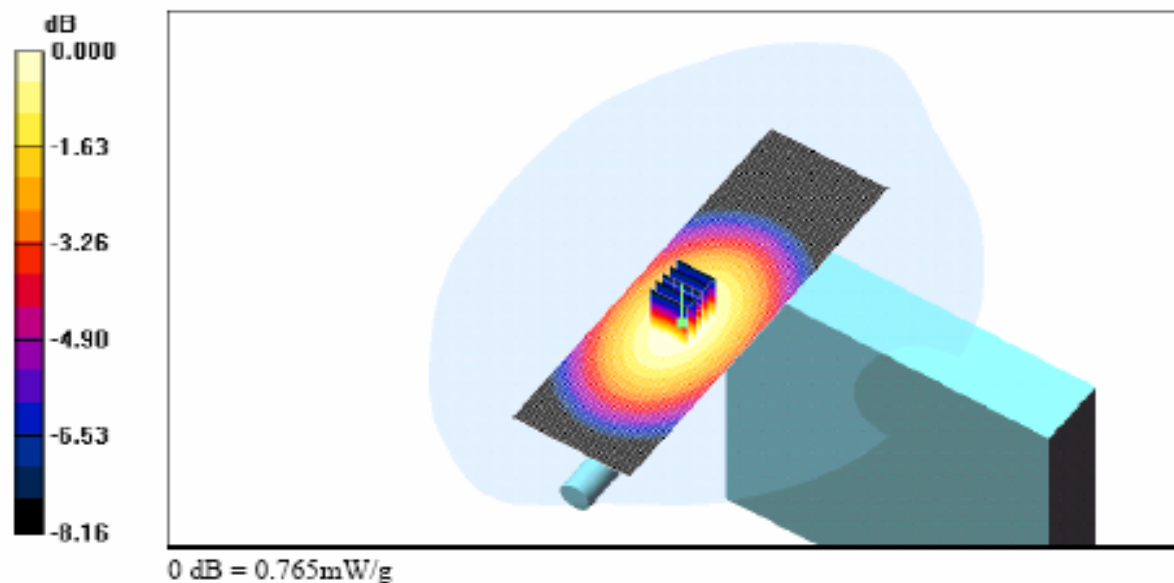
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.7 V/m; Power Drift = -0.065 dB

Peak SAR (extrapolated) = 0.941 W/kg

SAR(1 g) = 0.722 mW/g

Maximum value of SAR (measured) = 0.765 mW/g





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Date/Time: 2005-11-17 15:47:41

Test Laboratory: ESTECH

CH384 BODY WITHOUT ADAPTER

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 23 °C, Humidity : 46%

Area Scan (41x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.894 mW/g

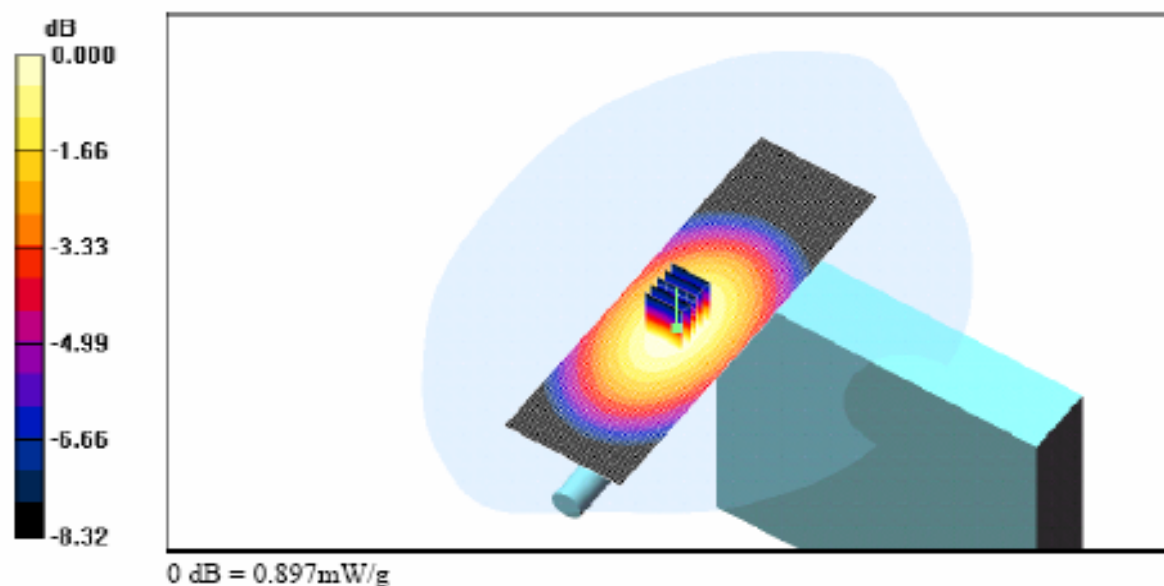
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 29.2 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.841 mW/g

Maximum value of SAR (measured) = 0.897 mW/g





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Date/Time: 2005-11-17 17:07:56

Test Laboratory: ESTECH

CH777 BODY WITHOUT ADAPTER

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): $f = 848.31 \text{ MHz}$; $\sigma = 0.971 \text{ mho/m}$; $\epsilon_r =$

54.1 ; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 23 °C, Humidity : 45%

Area Scan (41x131x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

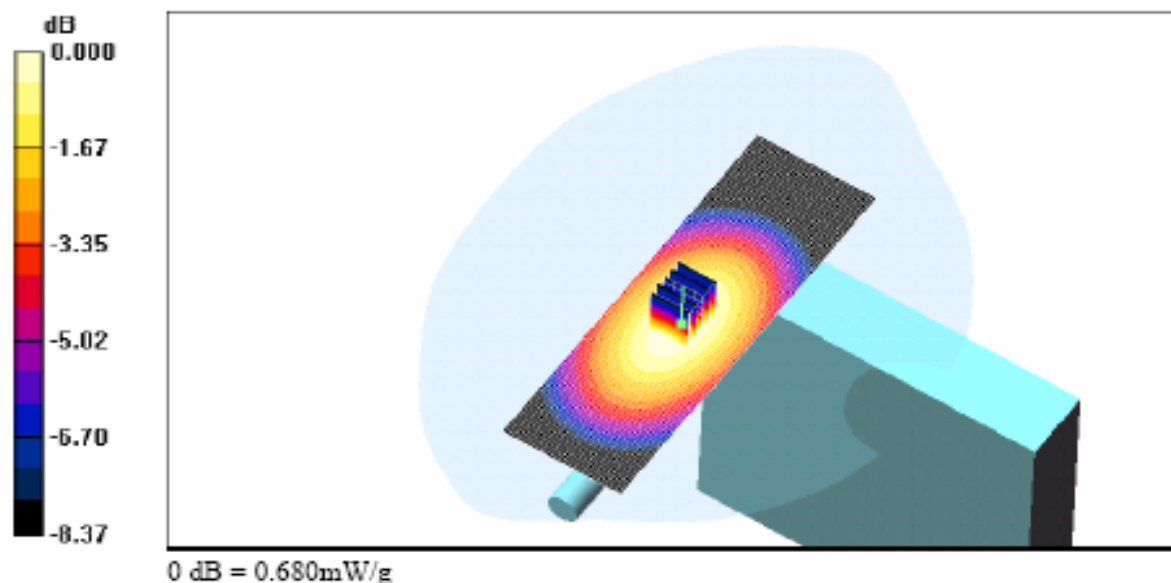
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.1 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.640 mW/g

Maximum value of SAR (measured) = 0.680 mW/g





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Date/Time: 2005-11-17 15:47:41

Test Laboratory: ESTECH

CH384 BODY WITHOUT ADAPTER-ZSCAN

DUT: UX380; Type: FIXED WLL TYPE; Serial: XXXX

Communication System: CDMA FCC; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used: $f = 837$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1748; ConvF(6.03, 6.03, 6.03); Calibrated: 2005-01-21
- Sensor-Surface: 4mm (Mechanical Surface Detection) Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn551; Calibrated: 2004-04-28
- Phantom: SAM 835MHz; Type: SAM 835MHz; Serial: TP-1262
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160
- Temperature : 23 °C, Humidity : 46%

