
Appendix B. Highest Measurement Data

Test Laboratory: DEKRA

Date: 2024/10/23

1_WLAN2.4GHz_802.11b-1M_CH6_Back-180 Degree_5mm_MIMO**DUT: Dongle; Type: GUBE65**

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 40.21$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(7.15, 7.15, 7.15) @ 2437 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.46 W/kg

Configuration/Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.408 V/m; Power Drift = 0.11 dB

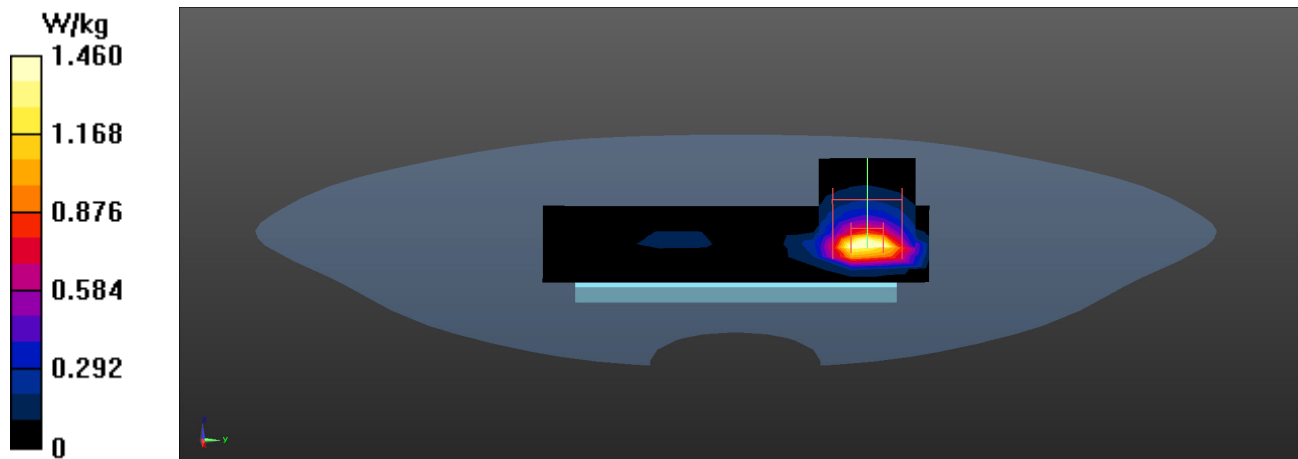
Peak SAR (extrapolated) = 2.44 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.477 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 1.93 W/kg



Test Laboratory: DEKRA

Date: 2024/10/29

19_WLAN5GHz_802.11ac80M-VHT0_CH58_Front-0 Degree_5mm_MIMO**DUT: Dongle; Type: GUBE65**

Communication System: UID 0, WLAN 5G; Frequency: 5290 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.77$ S/m; $\epsilon_r = 36.32$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.71, 4.71, 4.71) @ 5290 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (7x12x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.89 W/kg

Configuration/Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 17.30 V/m; Power Drift = 0.10 dB

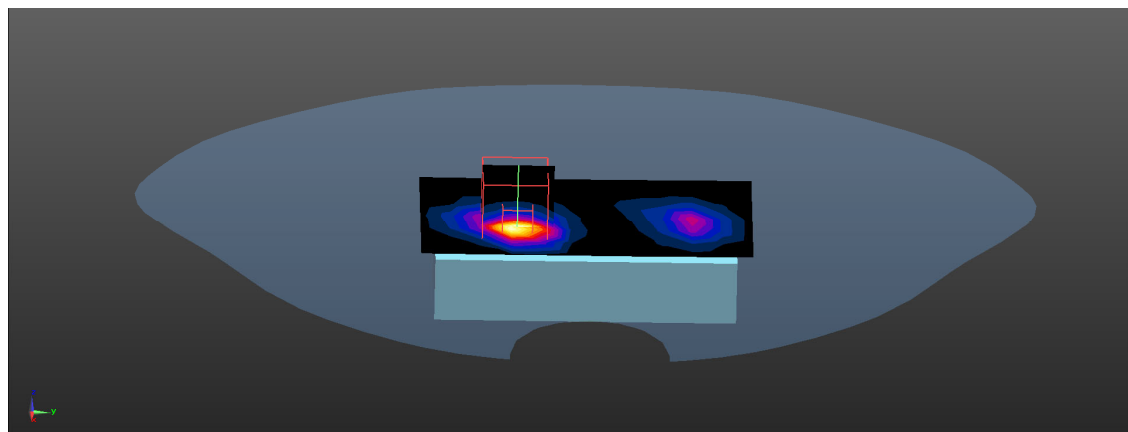
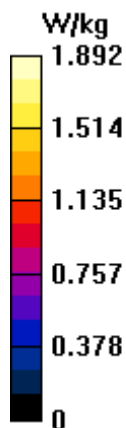
Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 0.880 W/kg; SAR(10 g) = 0.299 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.2%

Maximum value of SAR (measured) = 2.02 W/kg



Test Laboratory: DEKRA

Date: 2024/10/31

15_WLAN5GHz_802.11ac80M-VHT0_CH106_Front-0 Degree_5mm_MIMO**DUT: Dongle; Type: GUBE65**

Communication System: UID 0, WLAN 5G; Frequency: 5530 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.09$ S/m; $\epsilon_r = 35.65$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.41, 4.41, 4.41) @ 5530 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.22 W/kg

Configuration/Flat/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 12.12 V/m; Power Drift = -0.18 dB

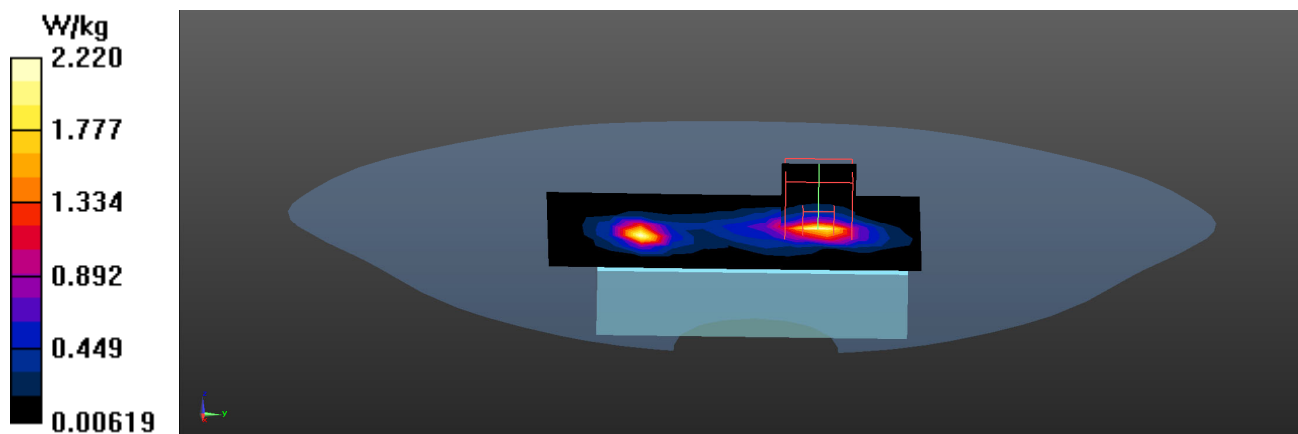
Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 1.000 W/kg; SAR(10 g) = 0.328 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 64%

Maximum value of SAR (measured) = 2.33 W/kg



Test Laboratory: DEKRA

Date: 2024/10/31

16_WLAN5GHz_802.11ac80M-VHT0_CH171_Front-0 Degree_5mm_MIMO**DUT: Dongle; Type: GUBE65**

Communication System: UID 0, WLAN 5G; Frequency: 5855 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5855$ MHz; $\sigma = 5.52$ S/m; $\epsilon_r = 34.77$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.6, 4.6, 4.6) @ 5855 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.10 (4);

Configuration/Flat/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.70 W/kg

Configuration/Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 24.21 V/m; Power Drift = 0.02 dB

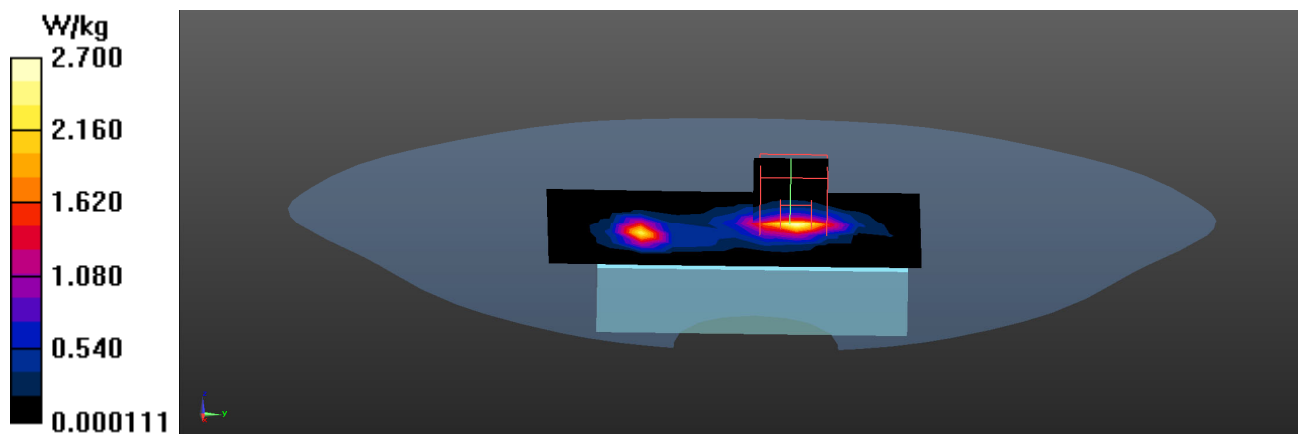
Peak SAR (extrapolated) = 4.66 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.371 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%

Maximum value of SAR (measured) = 2.63 W/kg



Test Laboratory: DEKRA

Date: 2024-11-25

83_WLAN6GHz_802.11ax160-HE0_CH207_Front-0 Degree_5mm_MIMO

Communication System: UID 10755-AAC, WLAN; Frequency: 6985.000 MHz
Medium parameters used: $f = 6985.000$ MHz; Conductivity = 6.53 S/m; Permittivity = 34.7
Phantom section: Flat

DASY Configuration:

- Probe: EX3DV4 - SN7784; ConvF(4.71, 4.83, 4.78); Calibrated: 2024-04-22
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1791; Calibrated: 2024-04-22
- Phantom: ELI V8.0 (20deg probe tilt)
- Measurement SW: V16.4.0.5005

Area Scan (68.0 mm x 119.0 mm): Measurement grid: 8.5 mm x 8.5 mm

SAR (1 g) = 0.469 W/kg; SAR (10 g) = 0.148 W/kg

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement grid: 3.4 mm x 3.4 mm x 1.4 mm

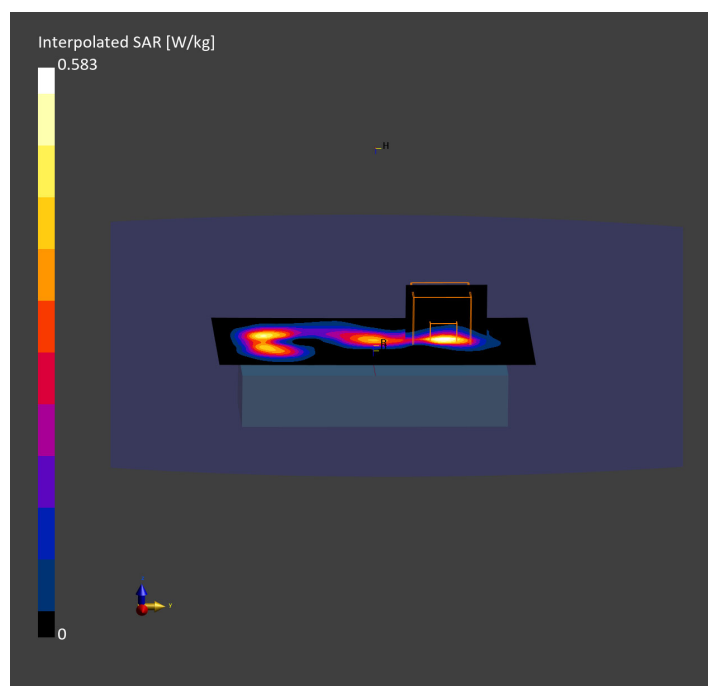
Power Drift = -0.07 dB

SAR(1 g) = 0.533 W/kg; SAR(10 g) = 0.157 W/kg

psAPD (4.0cm², sq) = 3.62 W/m²

Smallest distance from peaks to all points 3 dB below = 6.5

Ratio of SAR at M2 to SAR at M1 = 46.5



4_WLAN6GHz_802.11ax160-HE0_CH111_Front-0 Degree_5mm_MIMO

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
GUBE65	100.0 x 35.0 x 22.0		Dongle

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 5.00	U-NII-6	WLAN, 10755-AAC	6505.0, 111	1.0

Hardware Setup

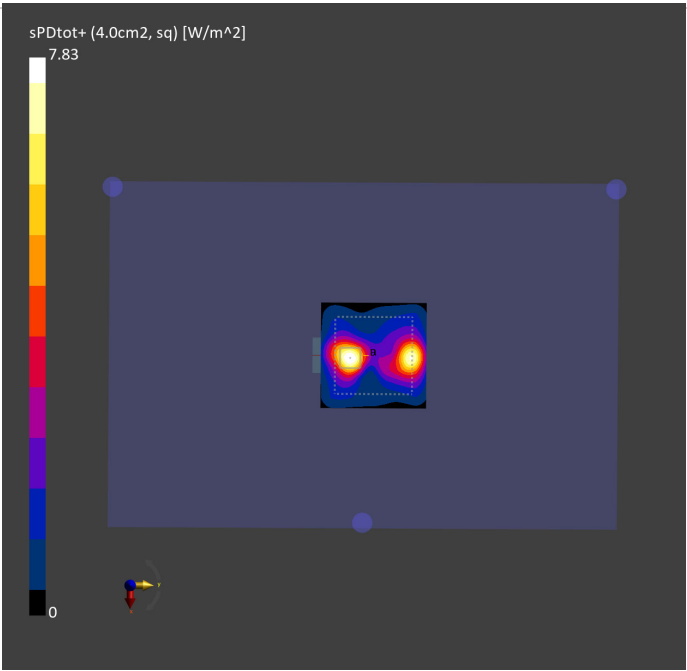
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1068	Air	EUmmWV4 - SN9546_F1-55GHz, 2024-04-18	DAE4 Sn1651, 2024-02-15

Scan Setup

	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.05 x 0.05
Sensor Surface [mm]	5.0
MAIA	Y

Measurement Results

	5G Scan
Date	2024-11-05
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	5.08
psPDtot+ [W/m²]	7.83
psPDmod+ [W/m²]	8.43
E _{max} [V/m]	59.9
Power Drift [dB]	-0.18



SAR measurement variability

Test Laboratory: DEKRA

Date: 2024/10/23

4_WLAN2.4GHz_802.11b-1M_CH6_Back-180 Degree_5mm_MIMO_Verify

DUT: Dongle; Type: GUBE65

Communication System: UID 0, WLAN 2.4G; Frequency: 2437 MHz

Communication System PAR: 0 dB

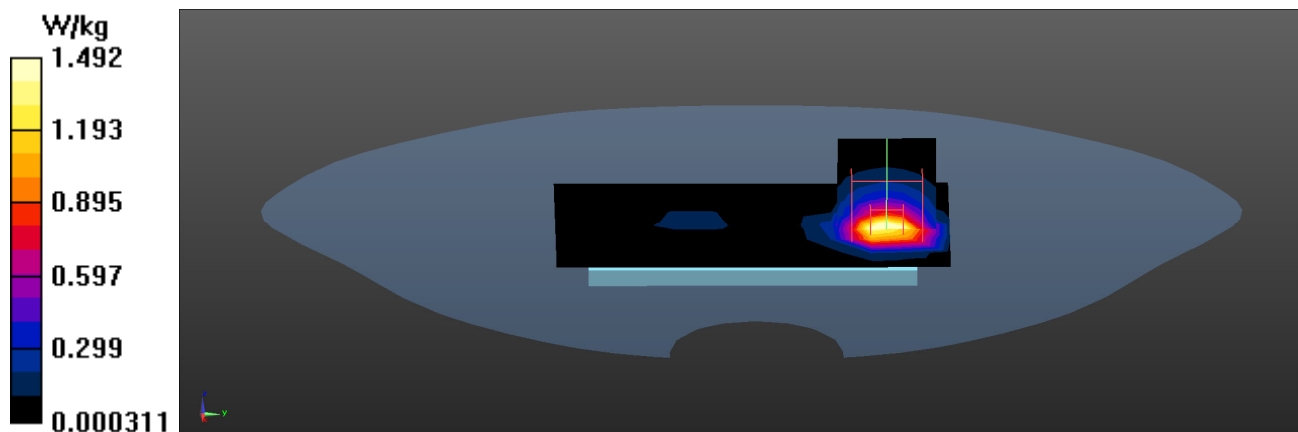
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.77$ S/m; $\epsilon_r = 40.21$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(7.15, 7.15, 7.15) @ 2437 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASYS2, Version 52.10 (4);

Configuration/Flat/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.49 W/kg**Configuration/Flat/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.623 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.36 W/kg
SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.465 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 46.8%
Maximum value of SAR (measured) = 1.88 W/kg

Test Laboratory: DEKRA

Date: 2024/10/31

17_WLAN5GHz_802.11ac80M-VHT0_CH171_Front-0 Degree_5mm_MIMO_Verify**DUT: Dongle; Type: GUBE65**

Communication System: UID 0, WLAN 5G; Frequency: 5855 MHz

Communication System PAR: 0 dB

Medium parameters used: $f = 5855$ MHz; $\sigma = 5.52$ S/m; $\epsilon_r = 34.77$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3698; ConvF(4.6, 4.6, 4.6) @ 5855 MHz; Calibrated: 2023/11/21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1207; Calibrated: 2023/11/22
- Phantom: SAM with left table; Type: SAM;
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Flat/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.53 W/kg

Configuration/Flat/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 24.27 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.368 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 2.54 W/kg

