

ICOM-389Q-SAR.docx

APPENDIX 1

SAR Measurement Data

ULTRATECH GROUP OF LABS

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Dec 17, 2014

- *All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)*

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EXHIBIT 1. HEAD SAR MEASUREMENT SUMMARY

Antenna	Power	CH	CH. Freq	HEAD SAR (W/Kg)	
				BP-279	BP-280
			(MHz)	1485mAh	2280mAh
FA-SC26VS 80mm 136-144 MHz Blue	5.15	1	150		0.04
FA-SC27VS 80mm 142-150 MHz Purple	5.15	1	150		0.11
FA-SC25V-1 163mm 136-150 MHz Blue	5.15	1	150	0.47	0.25
FA-SC55V-1 164mm 150-174 MHz	5.15	1	150	0.33	
	5.46	3	156	0.47	
	5.18	5	162	0.58	0.32
	5.10	7	168	0.39	
	5.16	8	170	0.08	
FA-SC62V 255mm 150-160 MHz	5.15	1	150	0.29	
	5.31	2	155	0.43	
	5.21	4	160	0.83	0.23
FA-SC63V 240mm 155-165 MHz	5.31	2	155	0.38	
	5.21	4	160	0.45	
	5.13	6	165	0.58	0.28
FA-SC56VS-1 80mm 150-162 MHz	5.15	1	150	0.28	0.17
	5.46	3	156	0.1	
	5.18	5	162	0.04	
FA-SC57VS-80mm 1 160-172 MHz	5.21	4	160	0.32	0.16
	5.13	6	165	0.16	
	5.16	8	170	0.02	

*Shaded area denotes SAR measurements taken from original SAR report ICOM-361Q-sar.docx

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Antenna	Power	CH	CH. Freq	HEAD SAR (W/Kg)	
				BP-279	BP-280
			(MHz)	1485mAh	2280mAh
FA-SC61VC 156mm 150MHz White	5.15	1	150	0.07	
	5.31	2	155	0.15	
	5.21	4	160		
	5.13	6	165		0.28
	5.16	8	170	0.22	
FA-SC61VC 151mm 155MHz White	5.15	1	150		
	5.31	2	155		0.10
	5.21	4	160		
	5.13	6	165		
	5.16	8	170		
FA-SC61VC 145mm 160MHz White	5.15	1	150		
	5.31	2	155		0.08
	5.21	4	160		
	5.13	6	165		
	5.16	8	170		
FA-SC61VC 136mm 170MHz White	5.15	1	150	0.57	0.03
	5.31	2	155	0.24	
	5.21	4	160		
	5.13	6	165		
	5.16	8	170	0.02	

*Shaded area denotes SAR measurements taken from original SAR report ICOM-361Q-sar.docx

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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC26VS 80MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.778 \text{ S/m}$; $\epsilon_r = 53.708$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0701 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.322 V/m ; Power Drift = -0.13 dB

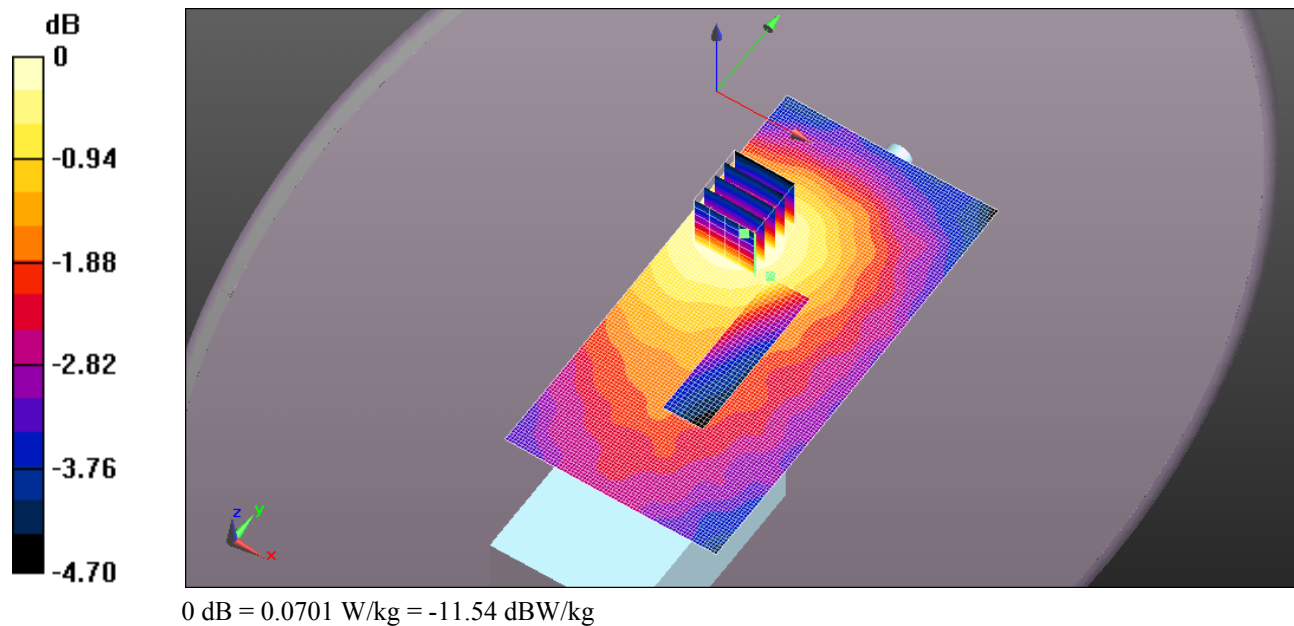
Peak SAR (extrapolated) = 0.117 W/kg

SAR(1 g) = 0.072 W/kg ; SAR(10 g) = 0.051 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.0817 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0852 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC27VS 80MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.778 \text{ S/m}$; $\epsilon_r = 53.708$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.202 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.60 V/m ; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.345 W/kg

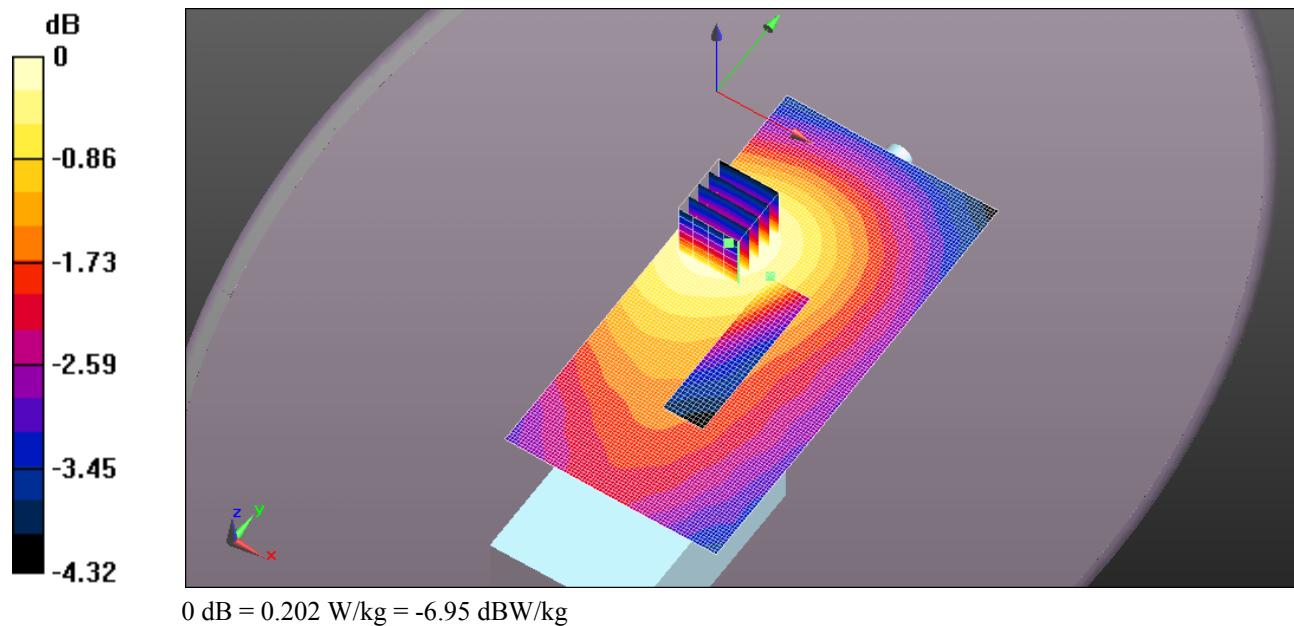
SAR(1 g) = 0.218 W/kg ; SAR(10 g) = 0.158 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.248 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.253 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC25VS 80MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.778 \text{ S/m}$; $\epsilon_r = 53.708$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.466 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.73 V/m ; Power Drift = -0.04 dB

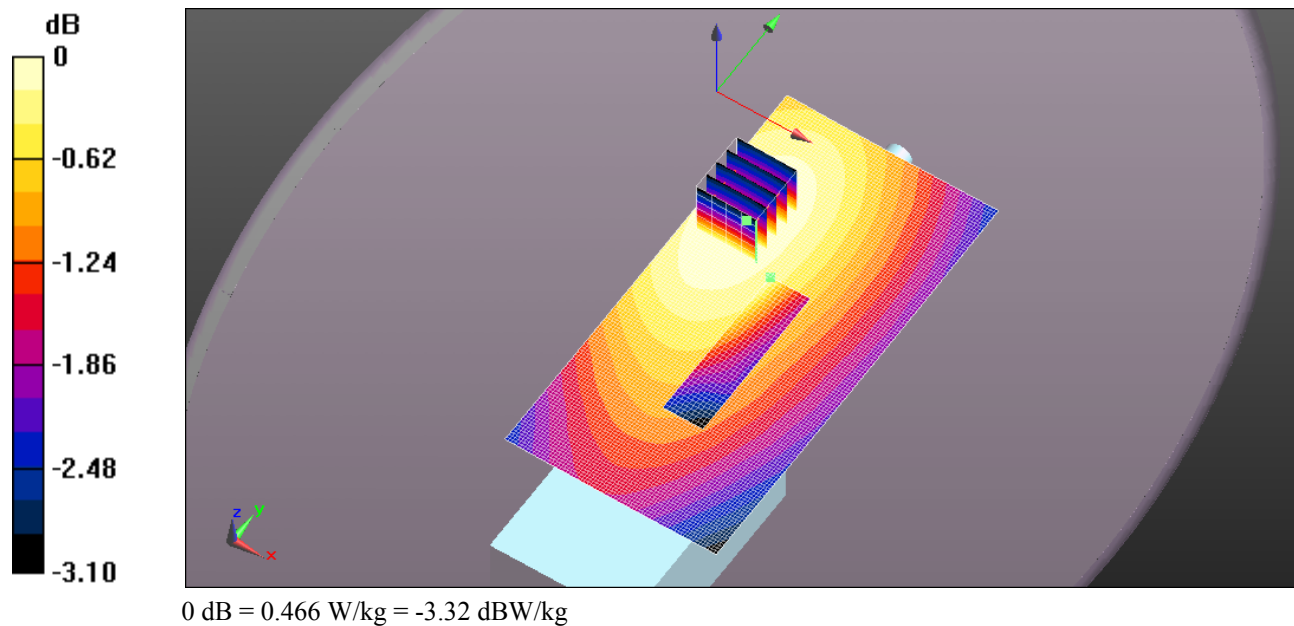
Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.492 W/kg ; SAR(10 g) = 0.381 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.548 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.548 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC55V-1 164MM 162MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 162 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 162 \text{ MHz}$; $\sigma = 0.79 \text{ S/m}$; $\epsilon_r = 52.924$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.613 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.21 V/m ; Power Drift = -0.12 dB

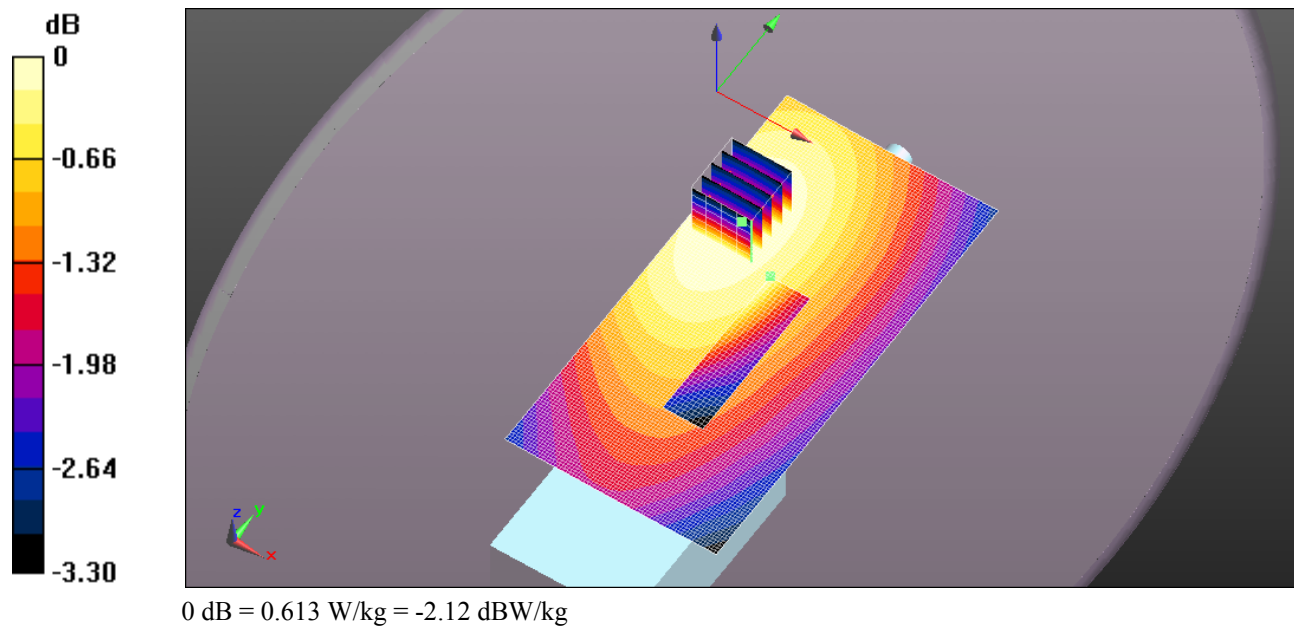
Peak SAR (extrapolated) = 0.944 W/kg

SAR(1 g) = 0.647 W/kg ; SAR(10 g) = 0.498 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.732 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.735 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC62V 255MM 160MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 160 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 160 \text{ MHz}$; $\sigma = 0.79 \text{ S/m}$; $\epsilon_r = 53.014$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.353 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.85 V/m ; Power Drift = 0.22 dB

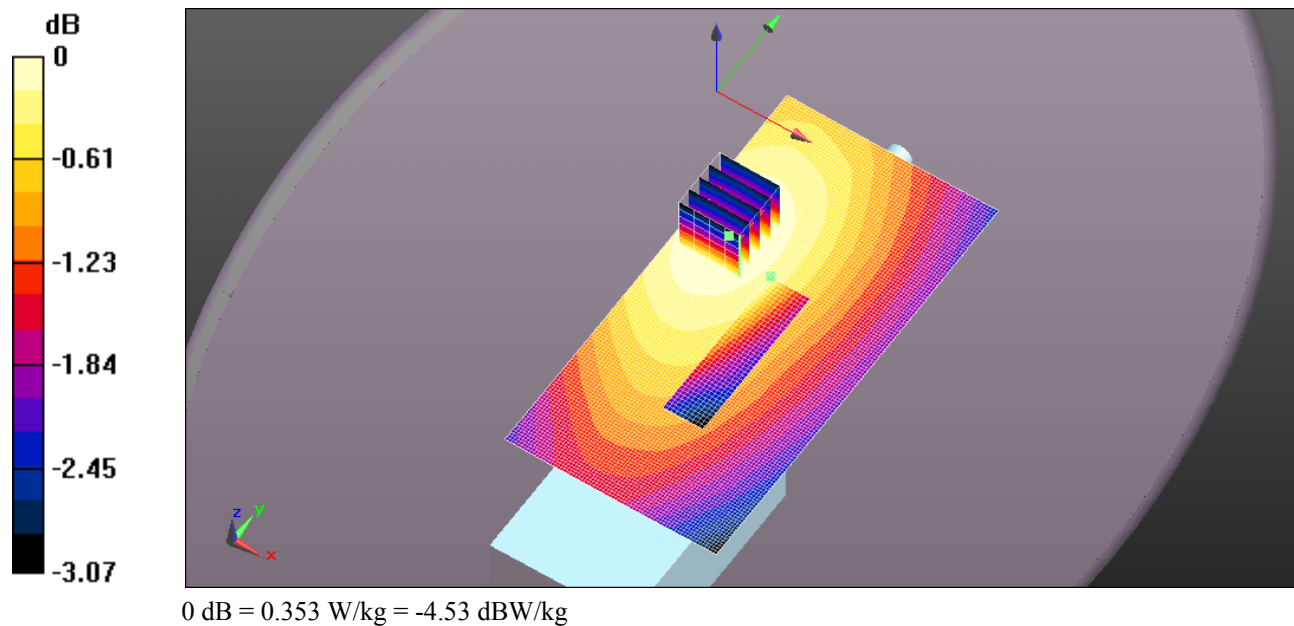
Peak SAR (extrapolated) = 0.678 W/kg

SAR(1 g) = 0.464 W/kg ; SAR(10 g) = 0.357 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.525 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.493 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC63V 240MM 165MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 165 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 165$ MHz; $\sigma = 0.793$ S/m; $\epsilon_r = 52.833$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):
Interpolated grid: dx=2.000 mm, dy=2.000 mm

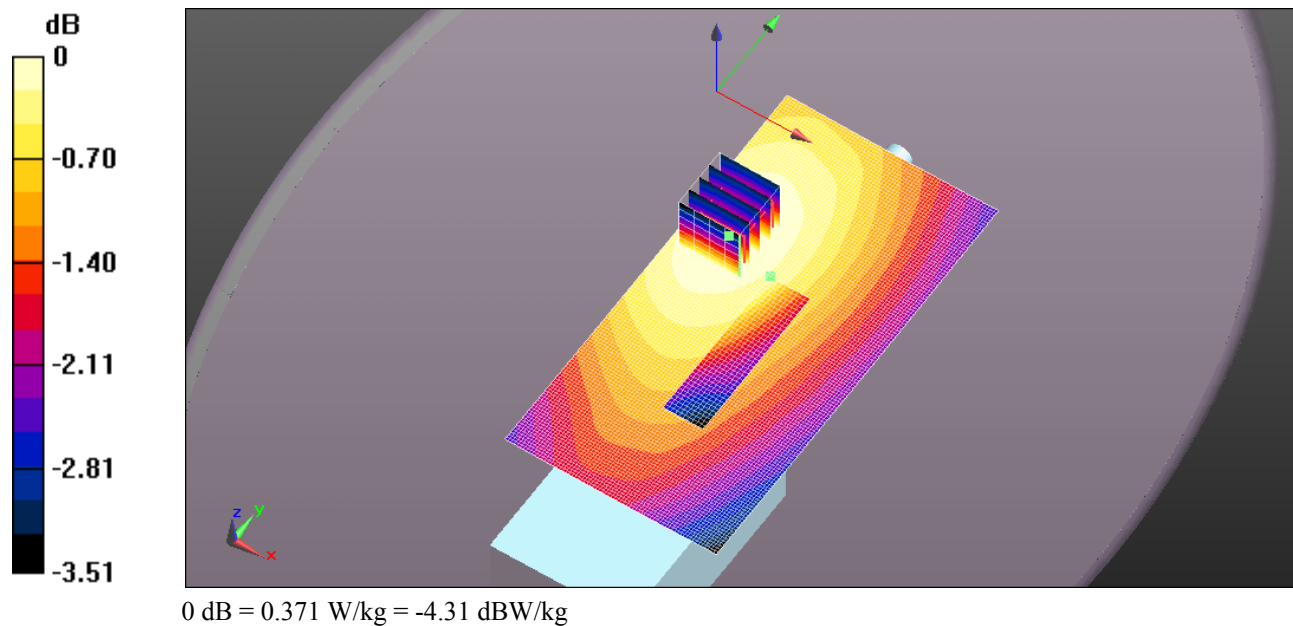
[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (interpolated) = 0.371 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.59 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.817 W/kg
SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.428 W/kg (SAR corrected for target medium)

[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (measured) = 0.632 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)
Maximum value of SAR (interpolated) = 0.564 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC56VS-1 60MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.778 \text{ S/m}$; $\epsilon_r = 53.708$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.268 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.03 V/m ; Power Drift = -0.23 dB

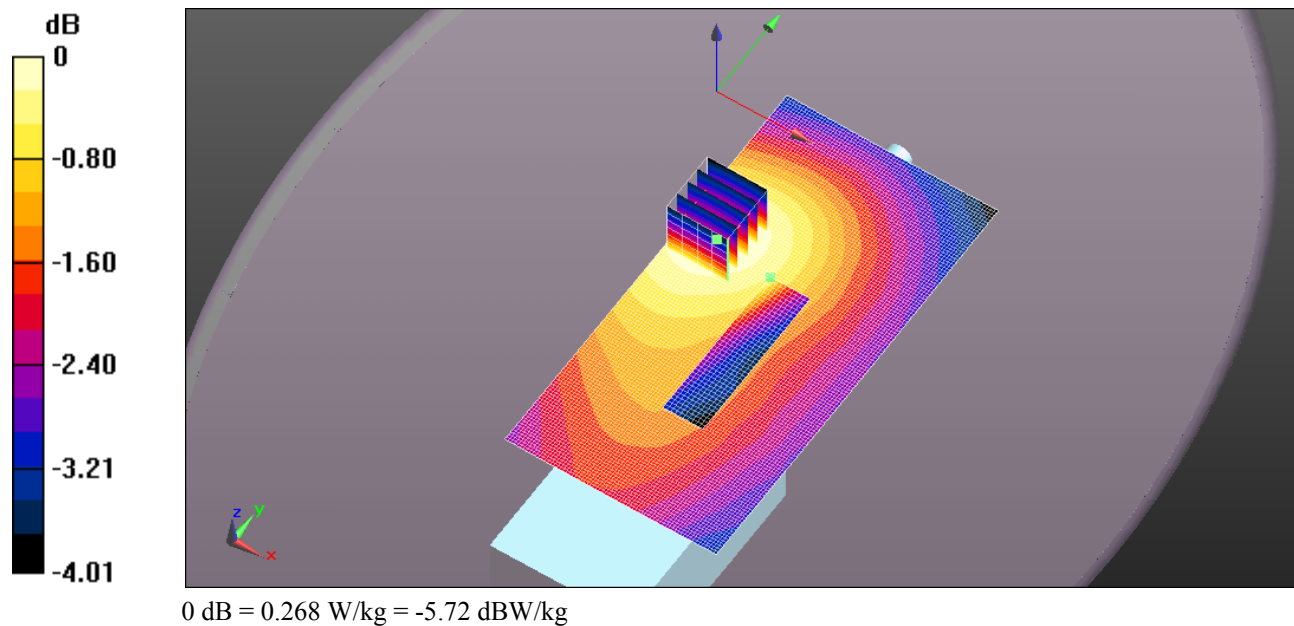
Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.333 W/kg ; SAR(10 g) = 0.240 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.381 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.384 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC57VS 80MM 160MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 160 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 160 \text{ MHz}$; $\sigma = 0.79 \text{ S/m}$; $\epsilon_r = 53.014$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/FindMax (11x41x1):

Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.246 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.32 V/m ; Power Drift = 0.03 dB

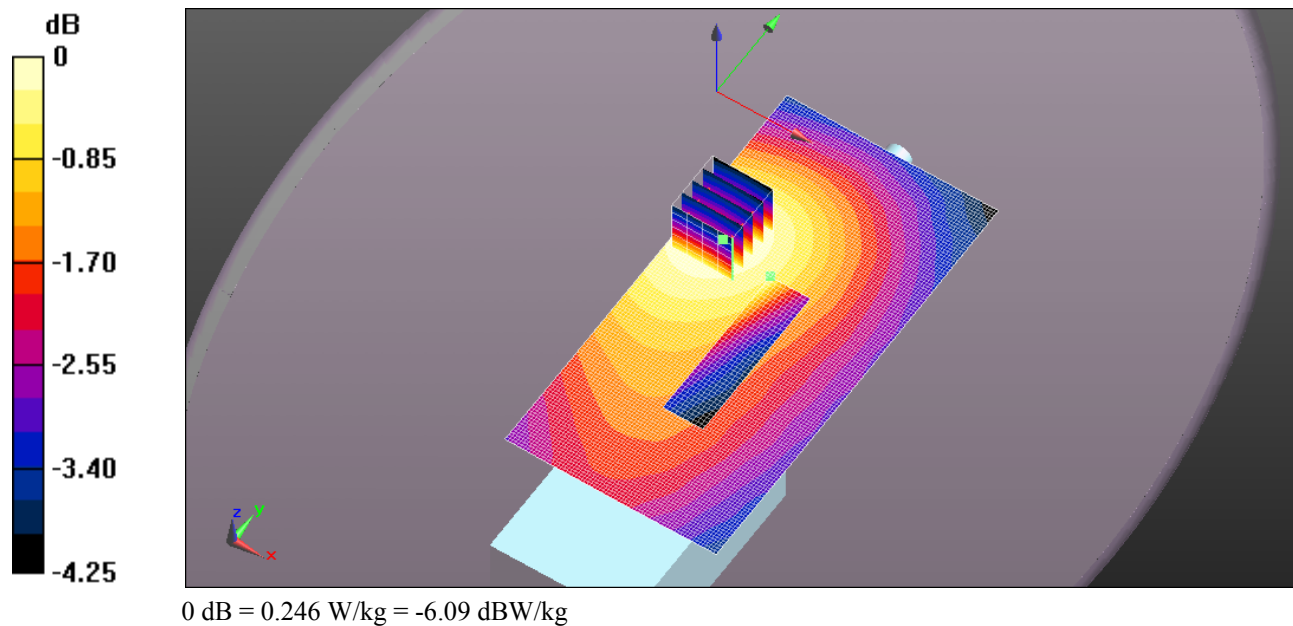
Peak SAR (extrapolated) = 0.526 W/kg

SAR(1 g) = 0.327 W/kg ; SAR(10 g) = 0.237 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.378 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.375 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: BP-280 SC61VC 156MM 155MHZ.DA52:0

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.778 \text{ S/m}$; $\epsilon_r = 53.708$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.50 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.800 W/kg

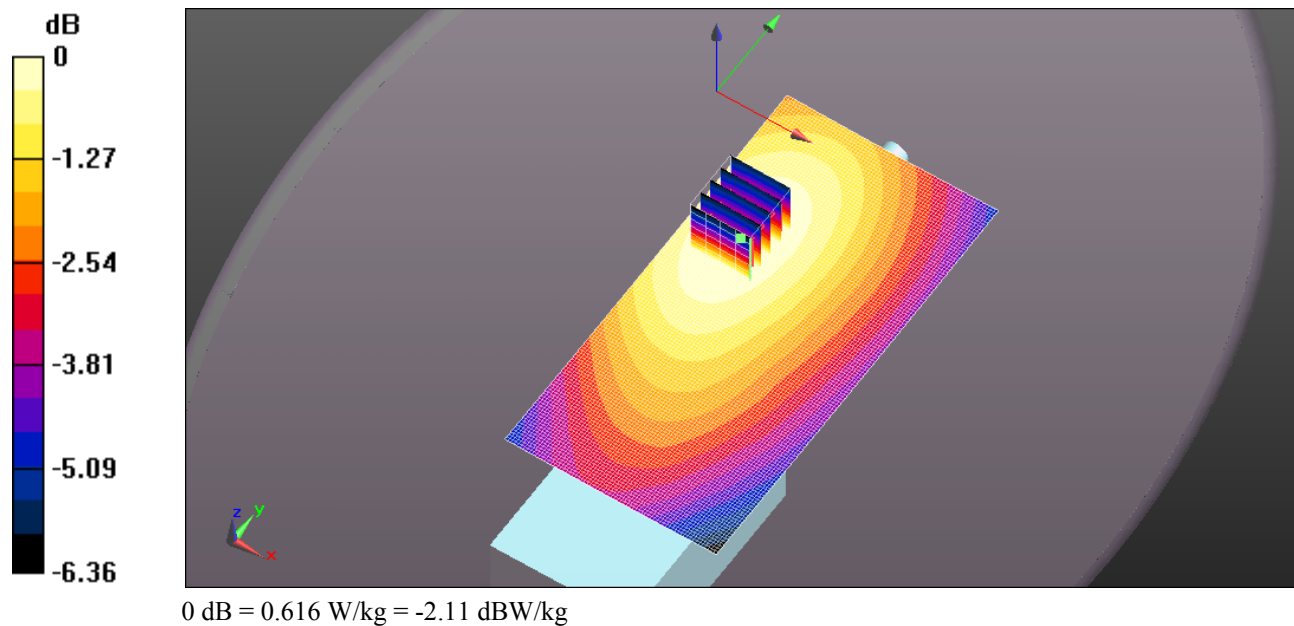
SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.424 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.616 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.610 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC61VC 151MM 155MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 155 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 155$ MHz; $\sigma = 0.783$ S/m; $\epsilon_r = 53.394$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.81 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.300 W/kg

SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.159 W/kg (SAR corrected for target medium)

[Info: Interpolated medium parameters used for SAR evaluation.](#)

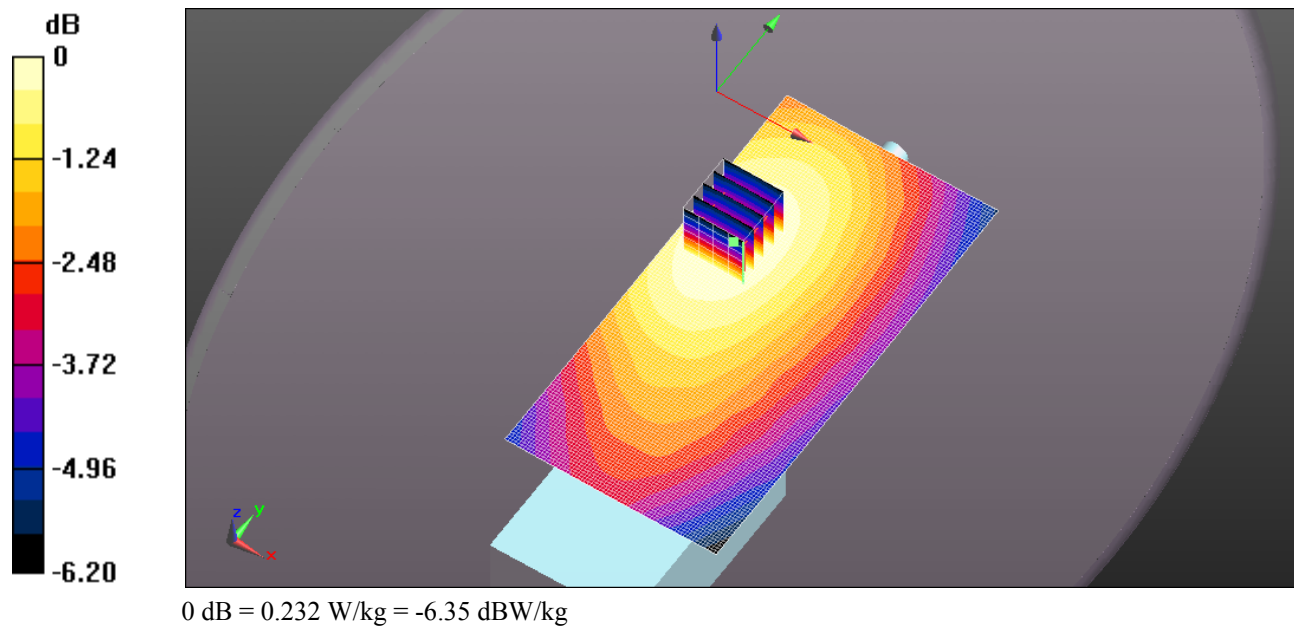
Maximum value of SAR (measured) = 0.232 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.224 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC61VC 145MM 155MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 155 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 155$ MHz; $\sigma = 0.783$ S/m; $\epsilon_r = 53.394$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.08 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.119 W/kg (SAR corrected for target medium)

[Info: Interpolated medium parameters used for SAR evaluation.](#)

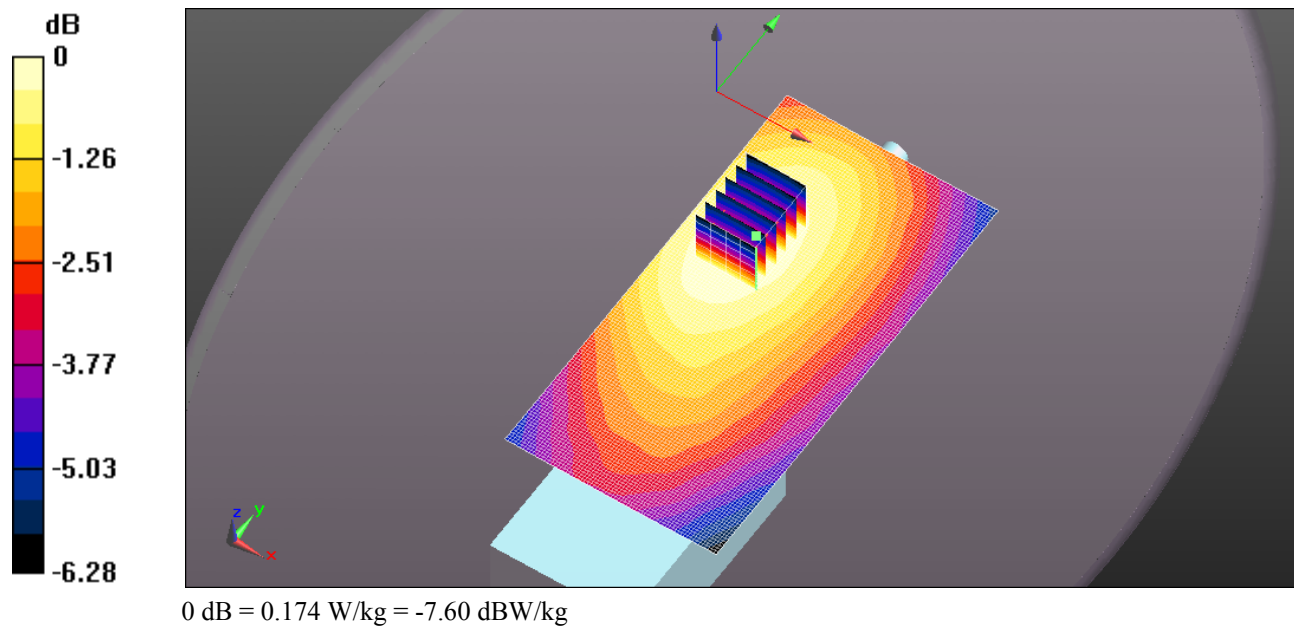
Maximum value of SAR (measured) = 0.174 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.178 W/kg



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Test Laboratory: Ultratech Group of Labs
File Name: [BP-280 SC61VC 145mm 155MHz.da52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 155 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 155 \text{ MHz}$; $\sigma = 0.783 \text{ S/m}$; $\epsilon_r = 53.394$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.34, 7.34, 7.34); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Zoom Scan (5x5x7)

(5x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.08 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.119 W/kg (SAR corrected for target medium)

[Info: Interpolated medium parameters used for SAR evaluation.](#)

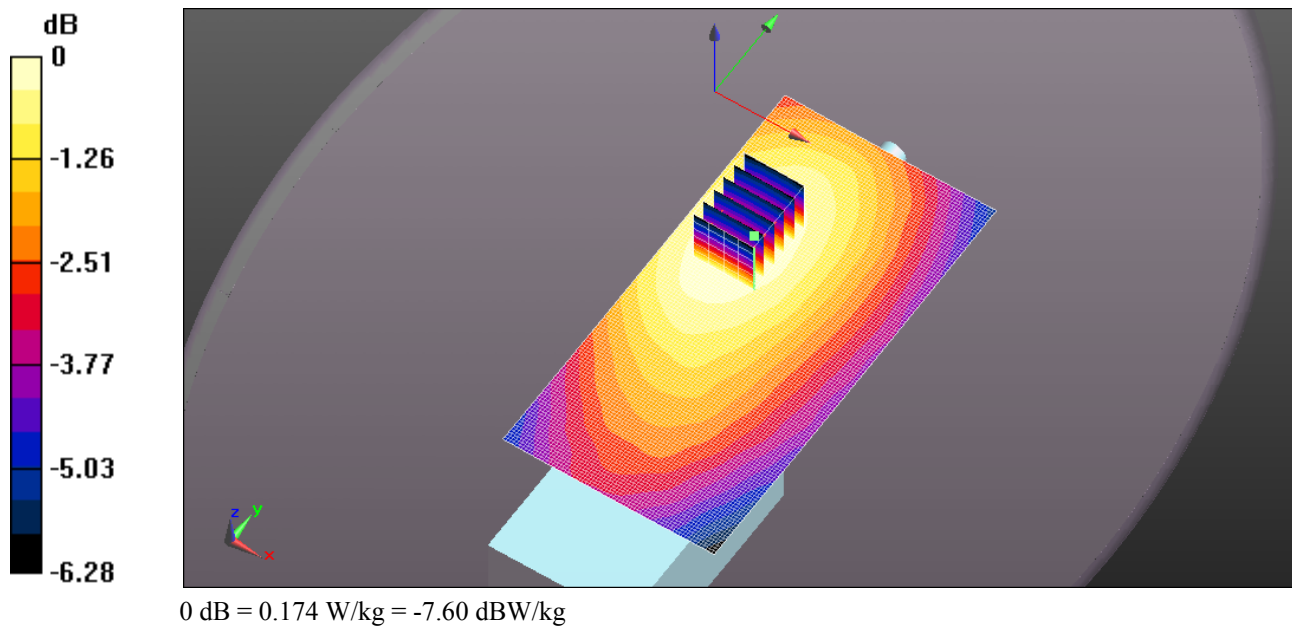
Maximum value of SAR (measured) = 0.174 W/kg

Configuration_Head_IC-F1000/Front to Face, P=5W, d=25mm/Area Scan (71x141x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.178 W/kg



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EXHIBIT 2. BODY SAR MEASUREMENT SUMMARY

Antenna	Power	CH	CH. Freq	BODY SAR (W/Kg)	
				BP-279	BP-280
			(MHz)	1485mAh	2280mAh
FA-SC26VS 80mm 136-144 MHz Blue	5.15	1	150		0.08
FA-SC27VS 80mm 142-150 MHz Purple	5.15	1	150		0.17
FA-SC25V-1 163mm 136-150 MHz Blue	5.15	1	150	0.91	0.39
FA-SC55V-1 164mm 150-174 MHz	5.15	1	150	1.05	0.66
	5.46	3	156	0.74	0.70
	5.18	5	162		
	5.10	7	168	0.36	
	5.16	8	170	0.06	
FA-SC62V 255mm 150-160 MHz	5.15	1	150	1.08	
	5.31	2	155	1.32	
	5.21	4	160	1.95	1.22
FA-SC63V 240mm 155-165 MHz	5.31	2	155	1.08	
	5.21	4	160	2.62	1.09
	5.13	6	165	2.2	
FA-SC56VS-1 80mm 150-162 MHz	5.15	1	150	0.52	0.26
	5.46	3	156	0.16	
	5.18	5	162	0.07	
FA-SC57VS-80mm 1 160-172 MHz	5.21	4	160	0.51	0.40
	5.13	6	165	0.19	
	5.16	8	170	0.02	

*Shaded area denotes SAR measurements taken from original SAR report ICOM-361Q-sar.docx

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- All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Antenna	Power	CH	CH. Freq (MHz)	BODY SAR (W/Kg)	
				BP-279	BP-280
				1485mAh	2280mAh
FA-SC61VC 156mm 150MHz White	5.15	1	150	0.15	
	5.31	2	155	0.28	0.44
	5.21	4	160		
	5.13	6	165		
	5.16	8	170	0.02	
FA-SC61VC 151mm 155MHz White	5.15	1	150		
	5.31	2	155		0.89
	5.21	4	160		
	5.13	6	165		
	5.16	8	170		
FA-SC61VC 145mm 160MHz White	5.15	1	150		
	5.31	2	155		0.49
	5.21	4	160		
	5.13	6	165		
	5.16	8	170		
FA-SC61VC 136mm 170MHz White	5.15	1	150	0.12	
	5.31	2	155	0.36	0.34
	5.21	4	160		
	5.13	6	165		
	5.16	8	170	0.66	

*Shaded area denotes SAR measurements taken from original SAR report ICOM-361Q-sar.docx

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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC26VS 80MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.765 \text{ S/m}$; $\epsilon_r = 60.562$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

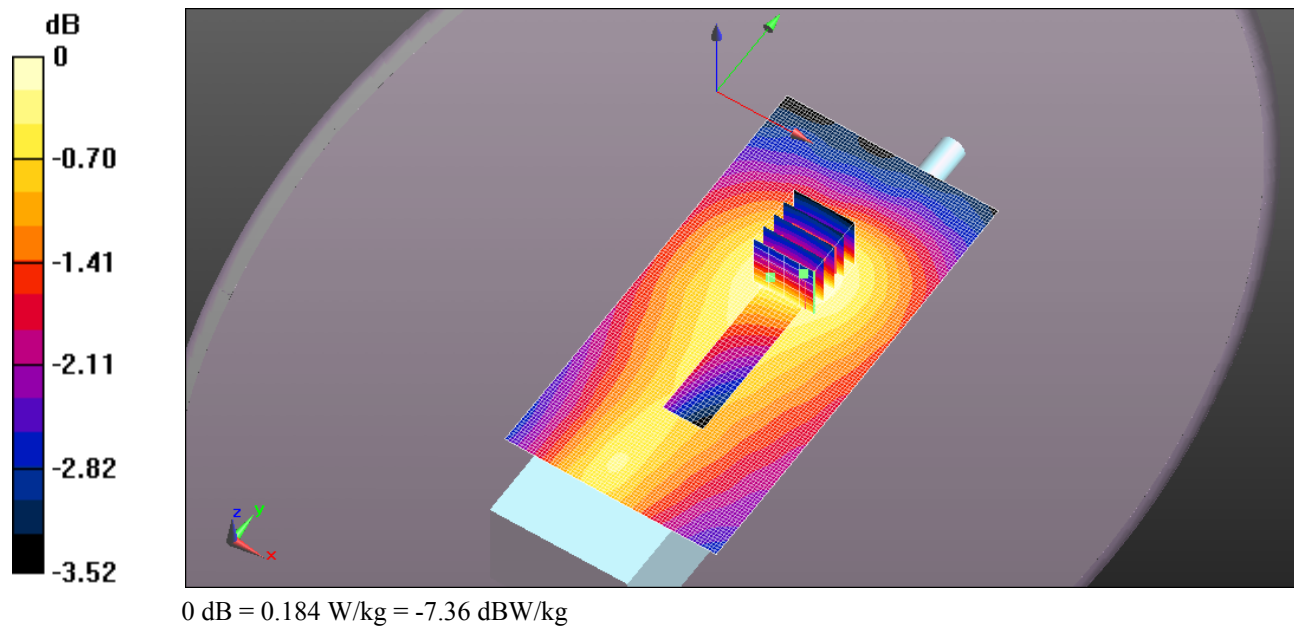
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.184 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 15.27 V/m ; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.258 W/kg
SAR(1 g) = 0.158 W/kg ; SAR(10 g) = 0.109 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.176 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.185 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC27VS 80MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.765 \text{ S/m}$; $\epsilon_r = 60.562$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

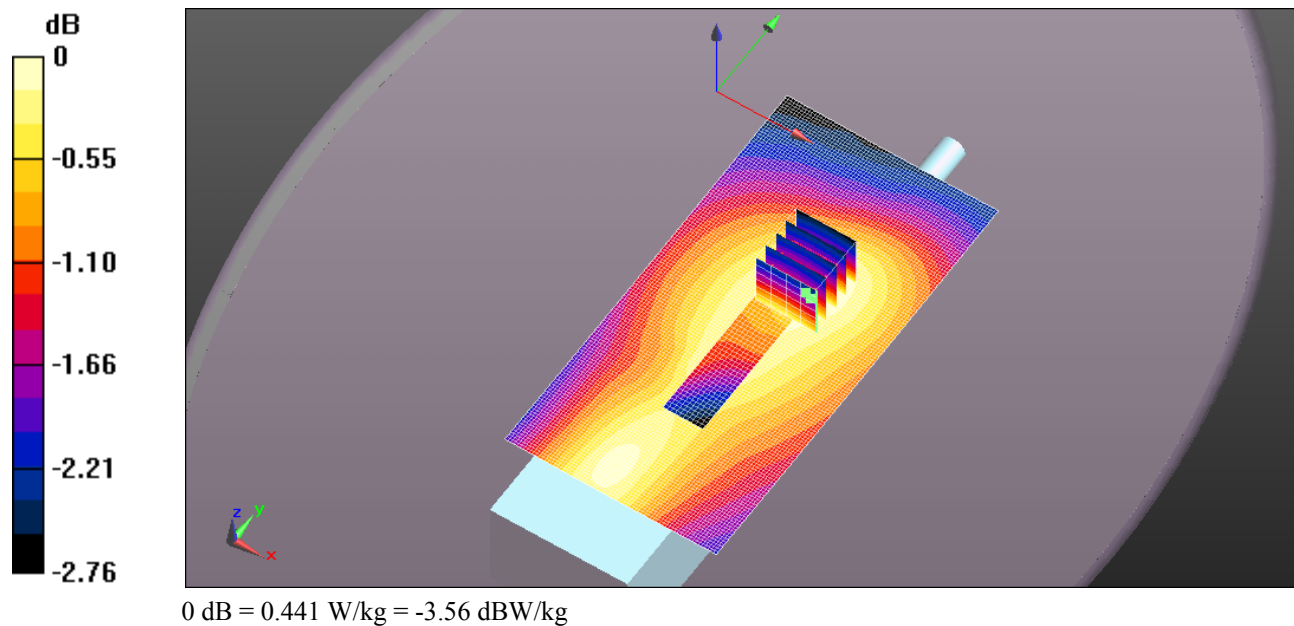
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.441 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 23.47 V/m ; Power Drift = -0.29 dB
Peak SAR (extrapolated) = 0.553 W/kg
SAR(1 g) = 0.347 W/kg ; SAR(10 g) = 0.247 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.384 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.398 W/kg



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Test Laboratory: Ultratech Group of Labs
File Name: [BP-280 SC25V-1 163mm 150MHz.da52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.765 \text{ S/m}$; $\epsilon_r = 60.562$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

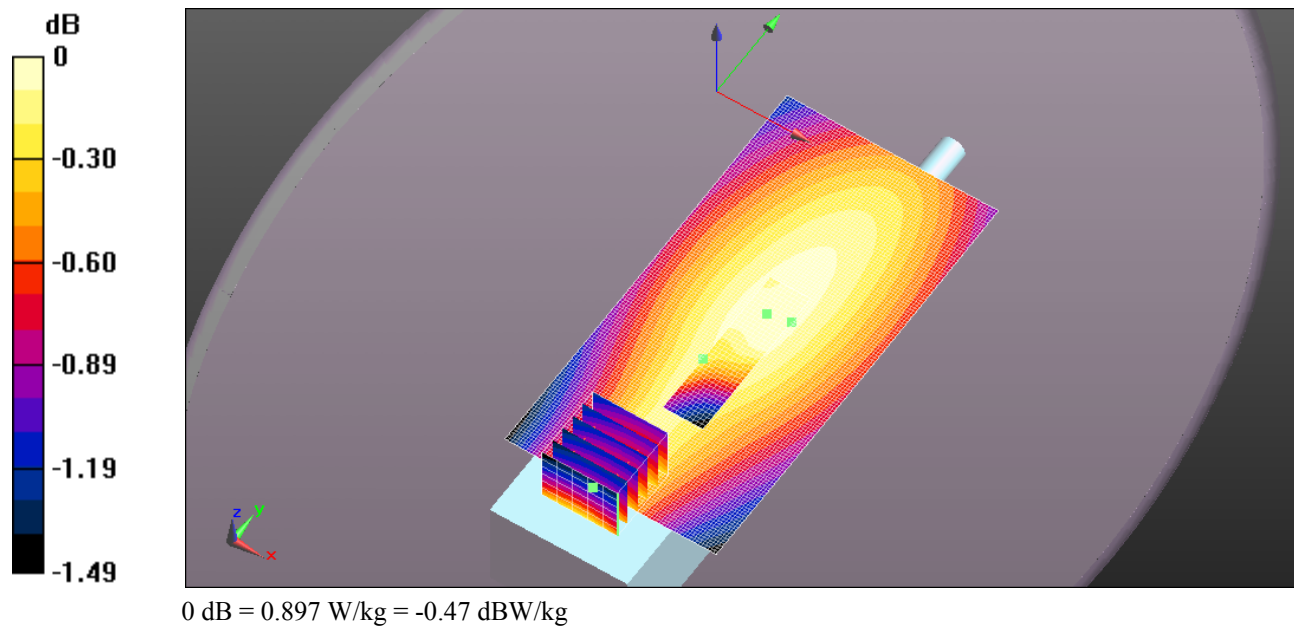
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.897 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 33.35 V/m ; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.77 W/kg
SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.461 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.952 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.933 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC55V-1 166MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.765 \text{ S/m}$; $\epsilon_r = 60.562$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

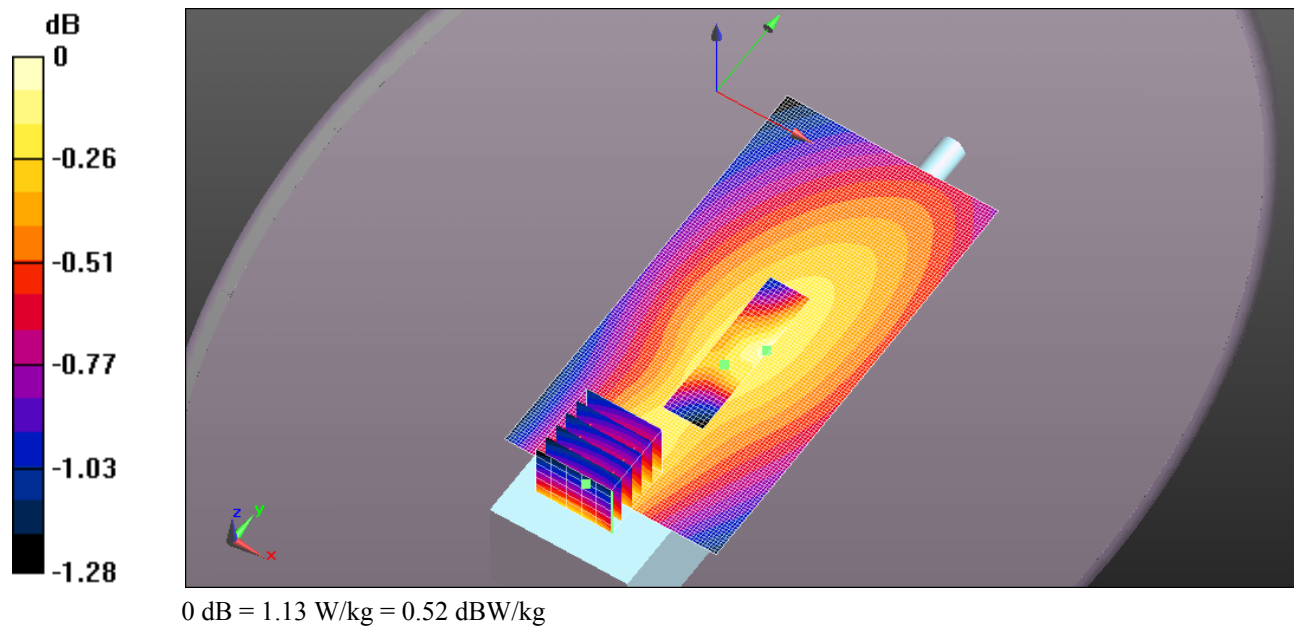
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.13 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 37.32 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 3.02 W/kg
SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.752 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.64 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.61 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC55V-1 166MM 155MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 156 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156 \text{ MHz}$; $\sigma = 0.768 \text{ S/m}$; $\epsilon_r = 60.42$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

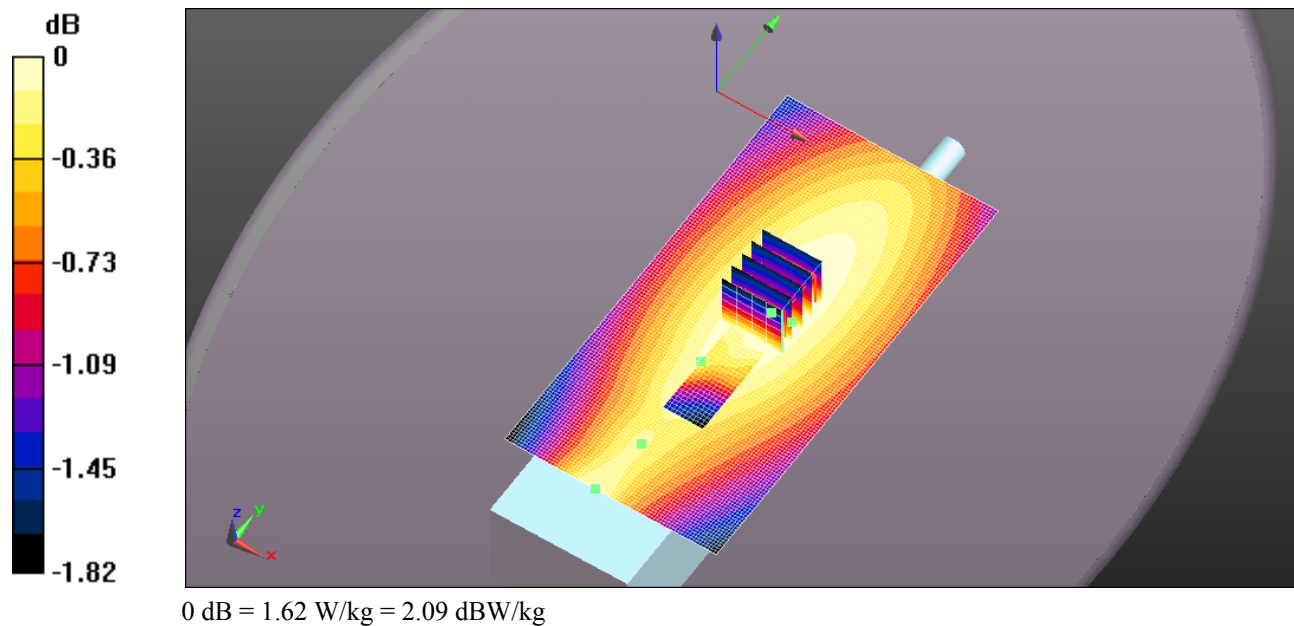
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.62 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 44.84 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 1.39 W/kg; SAR(10 g) = 1.05 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.51 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.58 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC62V 255MM 160MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 160 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 160 \text{ MHz}$; $\sigma = 0.771 \text{ S/m}$; $\epsilon_r = 60.376$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

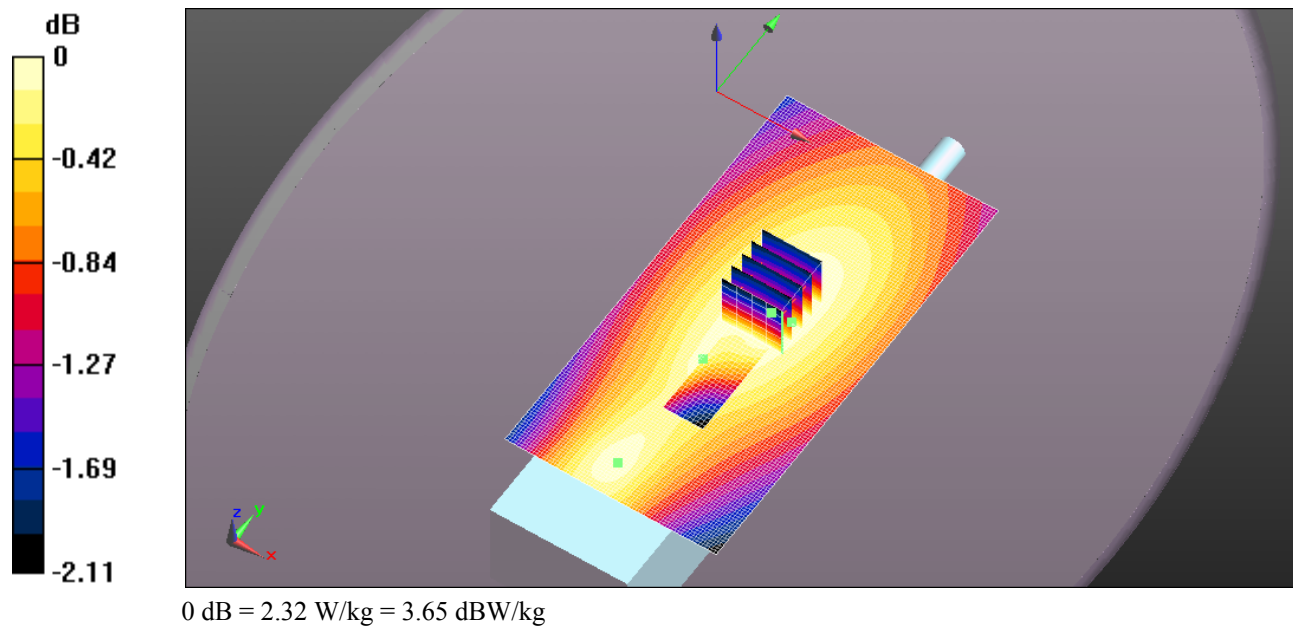
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 2.32 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 54.91 V/m ; Power Drift = 0.23 dB
Peak SAR (extrapolated) = 3.43 W/kg
SAR(1 g) = 2.43 W/kg ; SAR(10 g) = 1.84 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.65 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.56 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC63V 240MM 160MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 160 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 160 \text{ MHz}$; $\sigma = 0.771 \text{ S/m}$; $\epsilon_r = 60.376$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

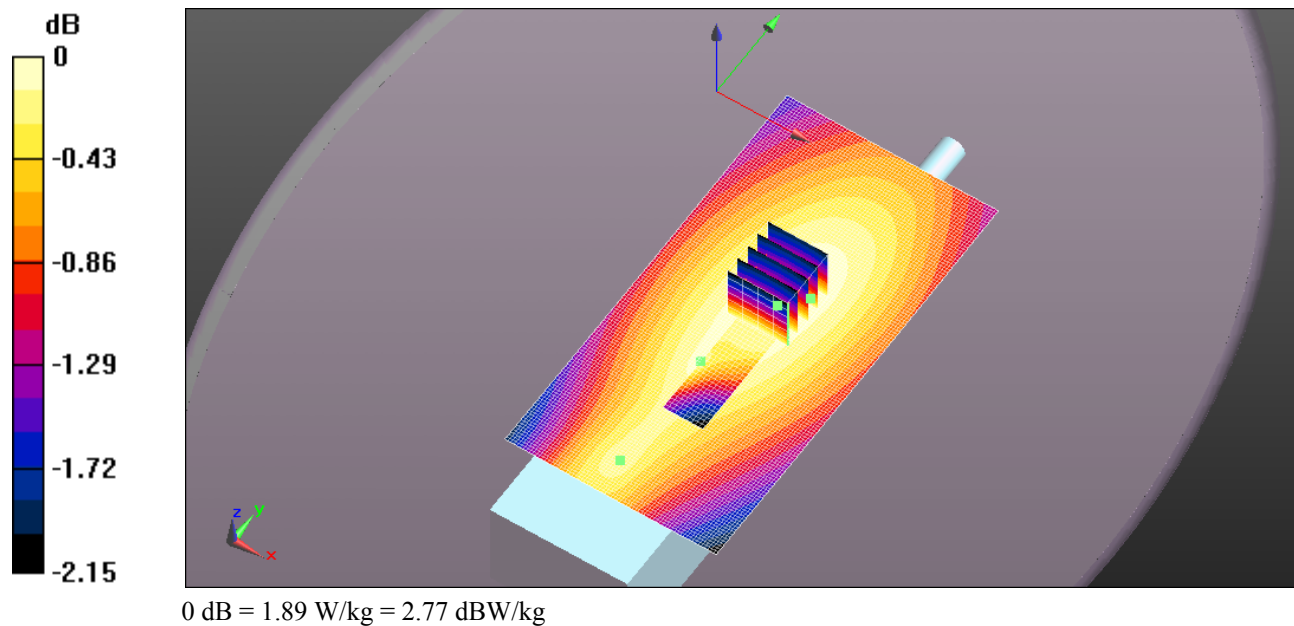
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.89 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 49.70 V/m; Power Drift = 0.86 dB
Peak SAR (extrapolated) = 3.08 W/kg
SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.65 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.38 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.18 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC56VS 80MM 150MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.765 \text{ S/m}$; $\epsilon_r = 60.562$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

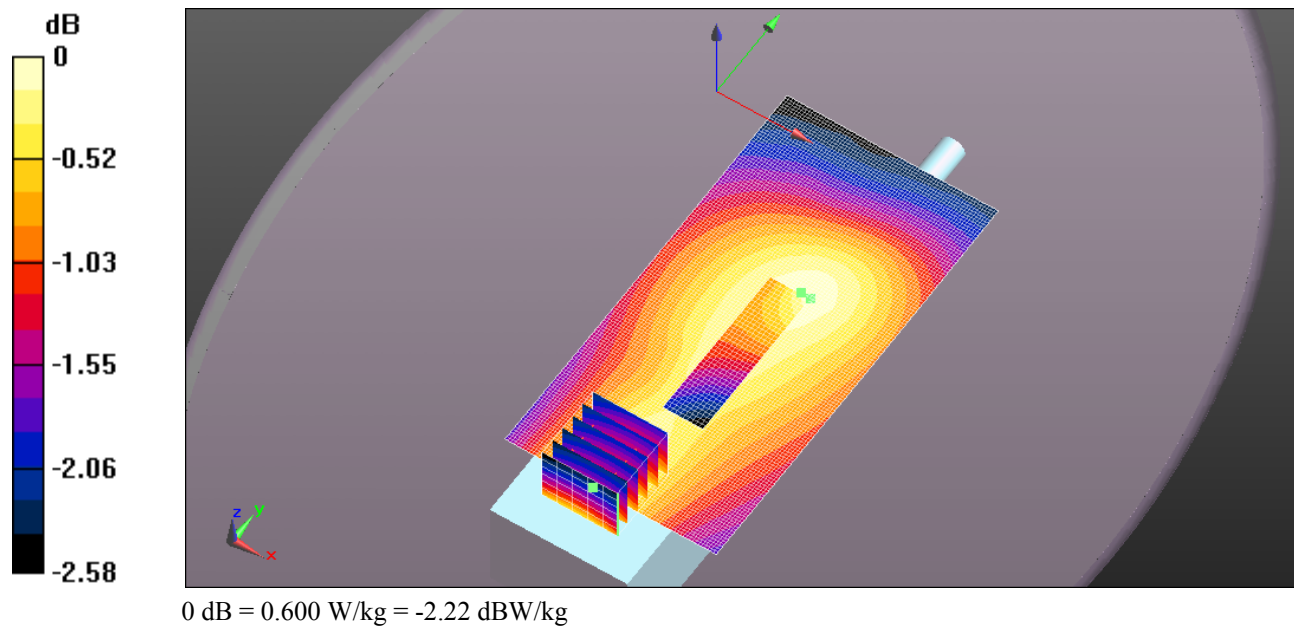
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.600 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 27.59 V/m ; Power Drift = -0.30 dB
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.518 W/kg ; SAR(10 g) = 0.297 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.623 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.628 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC57VS 80MM 160MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 160 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 160 \text{ MHz}$; $\sigma = 0.771 \text{ S/m}$; $\epsilon_r = 60.376$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

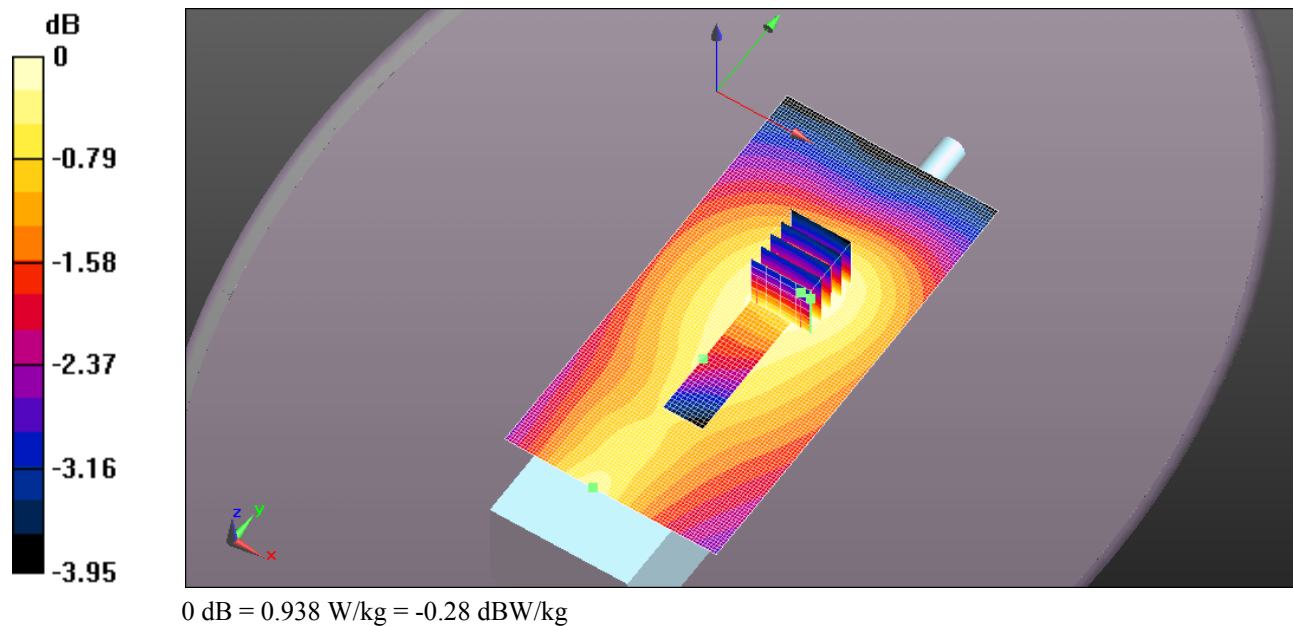
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 0.938 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 34.66 V/m ; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.803 W/kg; SAR(10 g) = 0.560 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.902 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.925 W/kg



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Test Laboratory: Ultratech Group of Labs
File Name: [BP-280 SC61VC 156mm 155MHz.da52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 155 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 155 \text{ MHz}$; $\sigma = 0.768 \text{ S/m}$; $\epsilon_r = 60.385$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.16 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.87 V/m ; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.878 W/kg ; SAR(10 g) = 0.522 W/kg (SAR corrected for target medium)

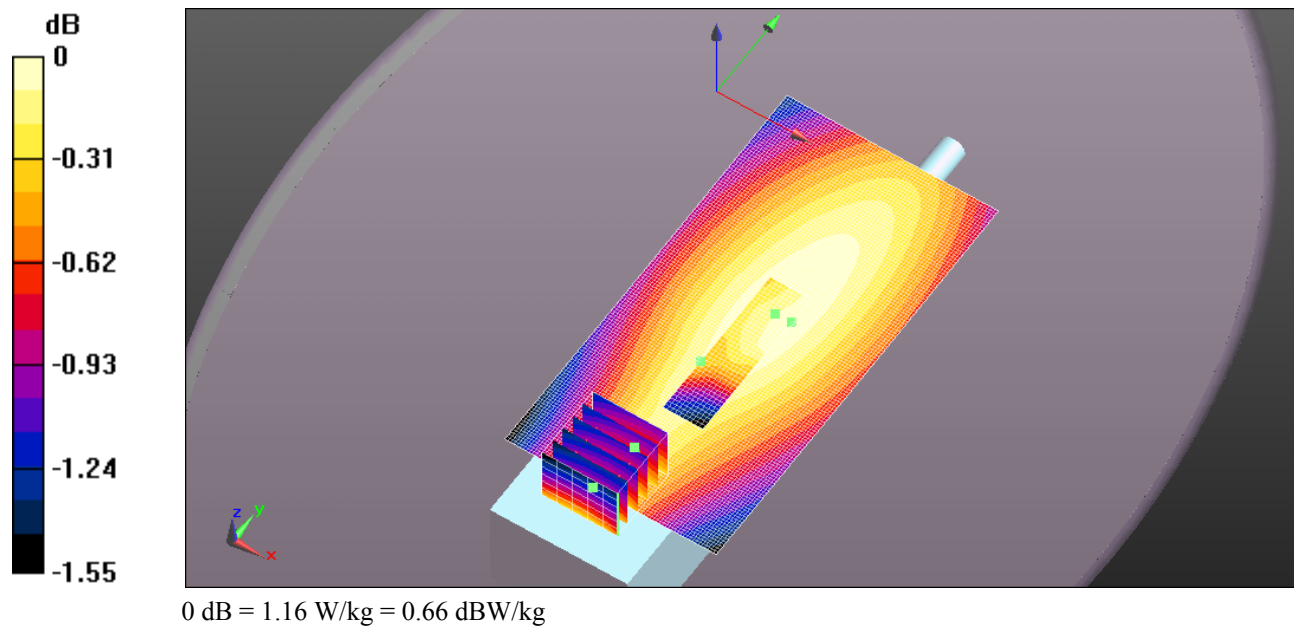
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.10 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.13 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC61VC 151MM 160MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 160 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 160 \text{ MHz}$; $\sigma = 0.771 \text{ S/m}$; $\epsilon_r = 60.376$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

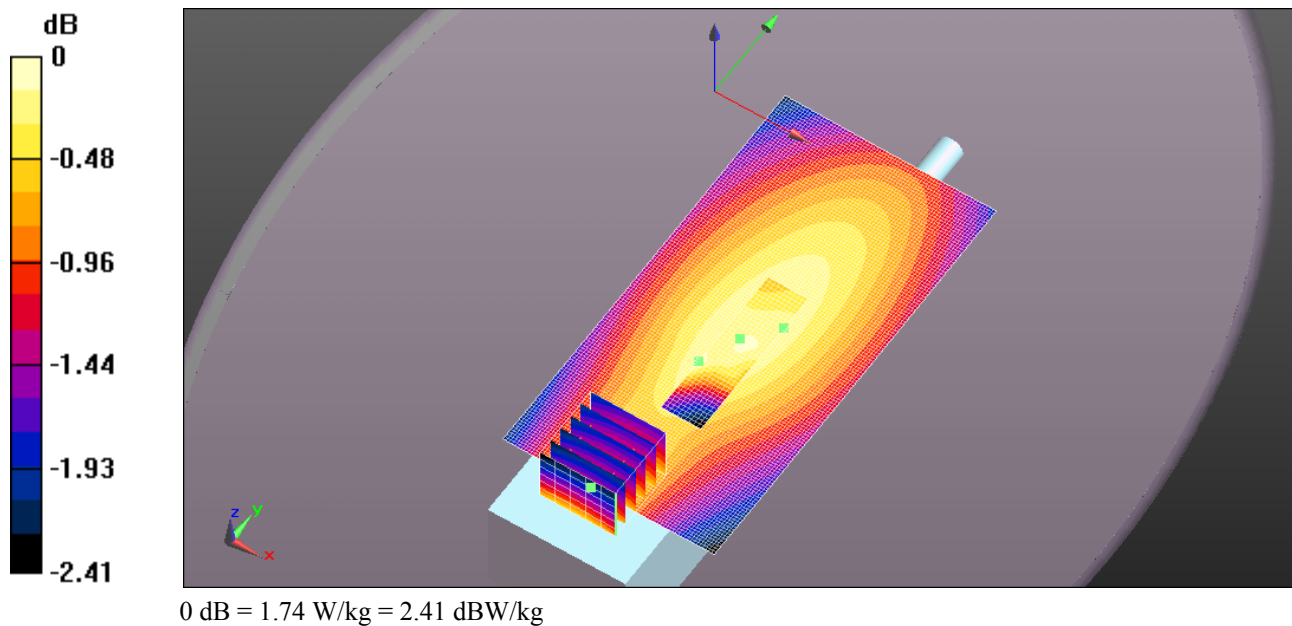
DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.74 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 45.60 V/m ; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 4.09 W/kg
SAR(1 g) = 1.79 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.28 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.17 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC61VC 145MM 155MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 155 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 155$ MHz; $\sigma = 0.768$ S/m; $\epsilon_r = 60.385$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: dx=2.000 mm, dy=2.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.11 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 37.60 V/m; Power Drift = 0.26 dB
Peak SAR (extrapolated) = 2.25 W/kg
SAR(1 g) = 0.986 W/kg; SAR(10 g) = 0.585 W/kg (SAR corrected for target medium)

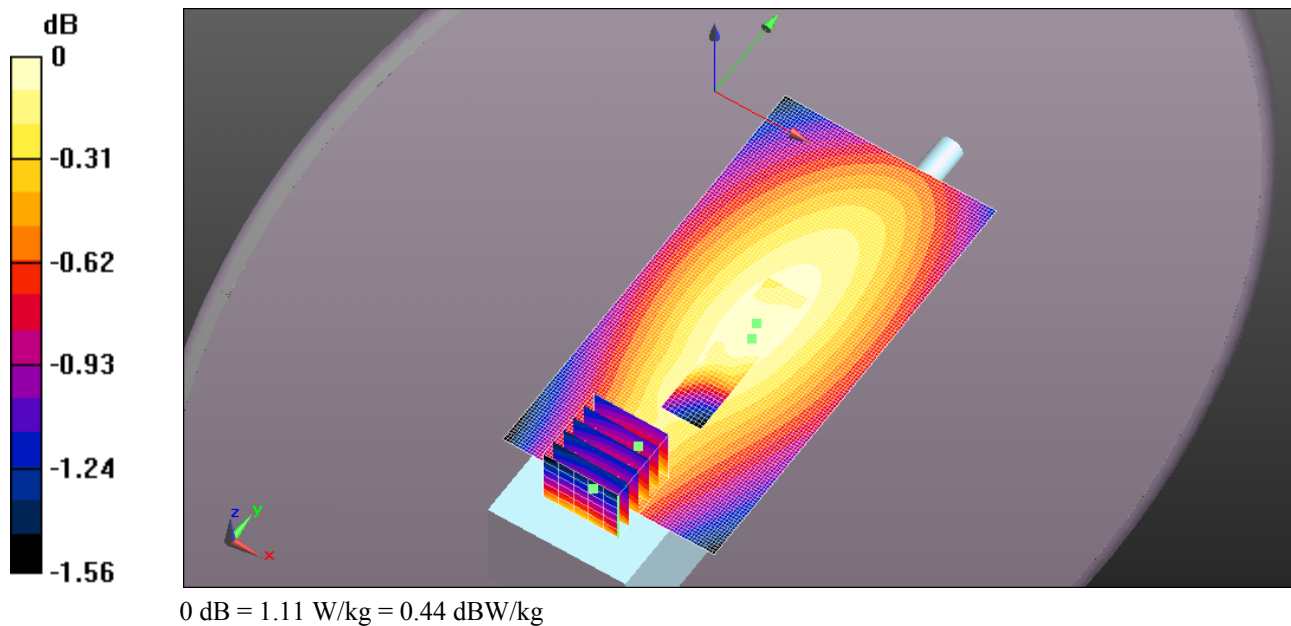
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.26 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.24 W/kg



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Test Laboratory: Ultratech Group of Labs

FILE NAME: [BP-280 SC61VC 136MM 155MHZ.DA52:0](#)

DUT: ICOM VHF Transceiver; Type: IC-F1000; Serial: 00000107-0
Program Name: Body Back with FA-SC25U (Green)

Communication System: UID 0, CW; Frequency: 155 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 155$ MHz; $\sigma = 0.768$ S/m; $\epsilon_r = 60.385$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.85, 6.85, 6.85); Calibrated: 3/24/2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 10/9/2014
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- ; SEMCAD X Version 14.6.10 (7331)

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/FindMax (11x41x1): Interpolated grid: dx=2.000 mm, dy=2.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.588 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.95 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.57 W/kg
SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.402 W/kg (SAR corrected for target medium)

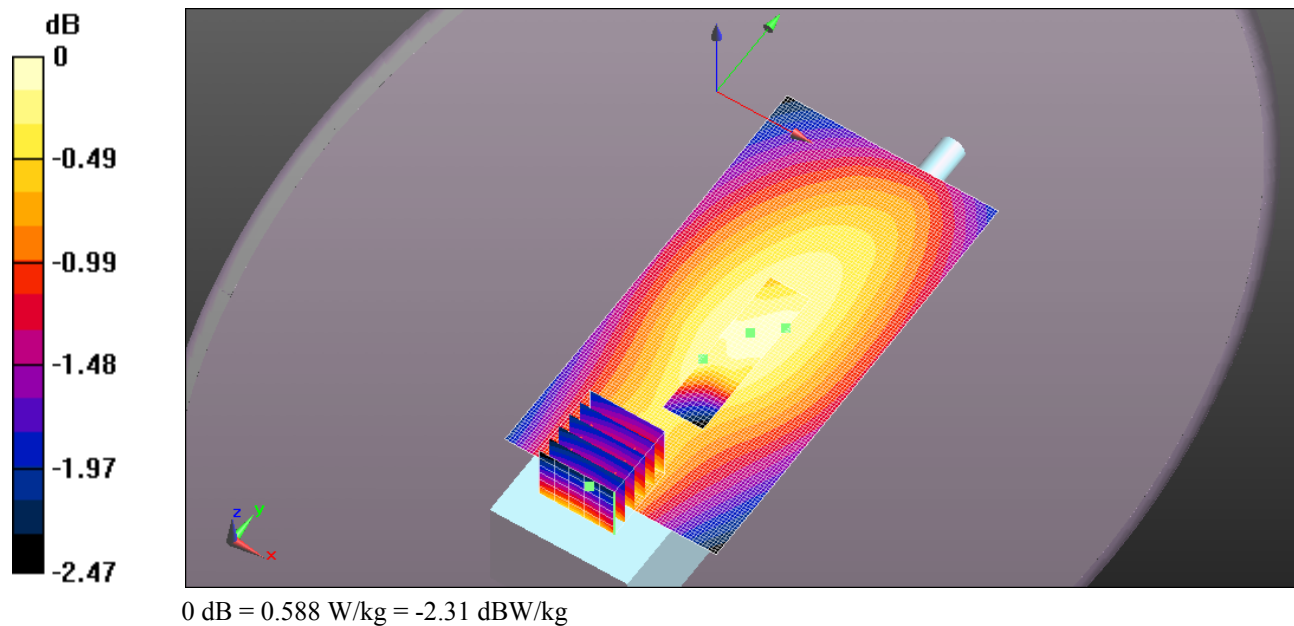
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.872 W/kg

Configuration_Body_IC-F1000/Back to phantom, Belt Clip Touch, P=5W, d=0mm/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.805 W/kg



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