

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. SYSTEM VERIFICATION

Type	Frequency (MHz)	SAR1g			SAR10g		
		Reference (W/kg)	Measured	Delta %	Reference (W/kg)	Measured	Delta %
Head	450	1.16	1.16	0.00%	0.771	0.776	0.65%
Body	450	1.16	1.18	1.72%	0.779	0.78	0.13%

File Name: [Head verification at 450 Mhz 3208 probe 9Jul26.da52:0](#)

DUT: D450V3 - SN1063; Type: D450V3; Serial: SN1063

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 450$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 44.223$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**System verification Head Icom 643 at 450 Mhz 3208 probe 26Jun26/d=15mm,
Pin=250mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm,
dy=1.500 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

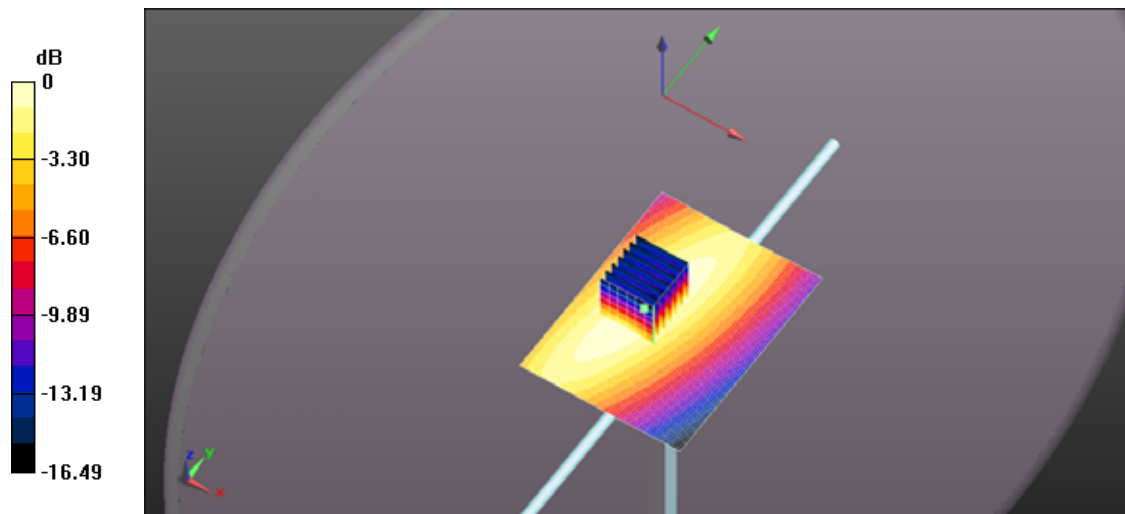
**System verification Head Icom 643 at 450 Mhz 3208 probe 26Jun26/d=15mm,
Pin=250mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.83 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.776 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.38 W/kg = 1.41 dBW/kg

File Name: [Body verification at 450 Mhz 3208 probe 26Jun26.da52:0](#)

DUT: D450V3 - SN1063; Type: D450V3; Serial: SN1063

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 450$ MHz; $\sigma = 0.963$ S/m; $\epsilon_r = 54.219$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**System verification Body Icom 643 at 450 Mhz 3208 probe 26Jun26/d=15mm,
Pin=250mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1):** Interpolated grid: dx=1.500 mm,
dy=1.500 mm

Maximum value of SAR (interpolated) = 1.42 W/kg

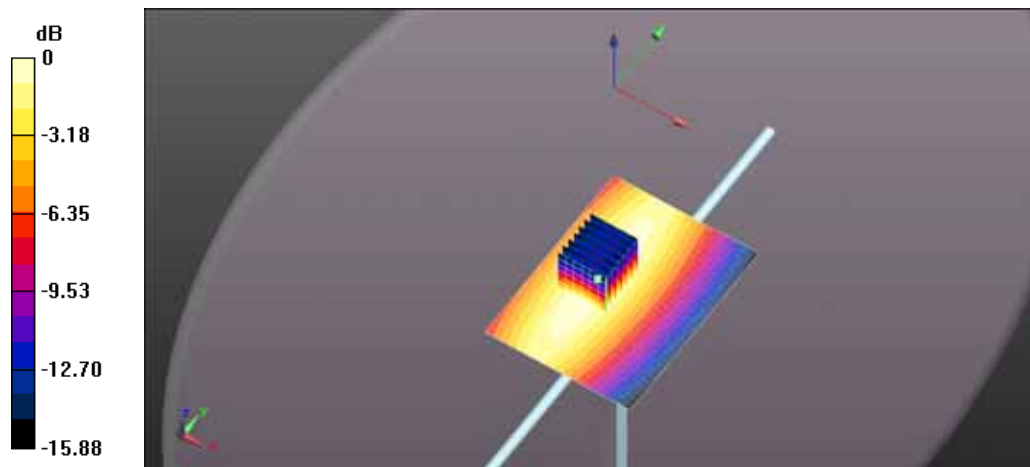
**System verification Body Icom 643 at 450 Mhz 3208 probe 26Jun26/d=15mm,
Pin=250mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.59 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.780 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

EXHIBIT 2. PRESCAN

Body

Battery BP-320EX	Antenna	Power (W)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift
				(MHz)			(dB)
MB133EX	FA-S88UG	2.23	4	452.5	3.4	2.44	-0.34
LC208		2.23	4	452.5	3.78	2.74	-0.20
MB133EX+LC208		2.23	4	452.5	2.94	2.14	-0.17

File Name: [ICOM-643 BP320EX S88UG 452.5MHz MB133EX.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 54.946$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q prescan 452.5 MHz Body BP320EX Mb 133/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 3.94 W/kg

ICOM 643Q prescan 452.5 MHz Body BP320EX Mb 133/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

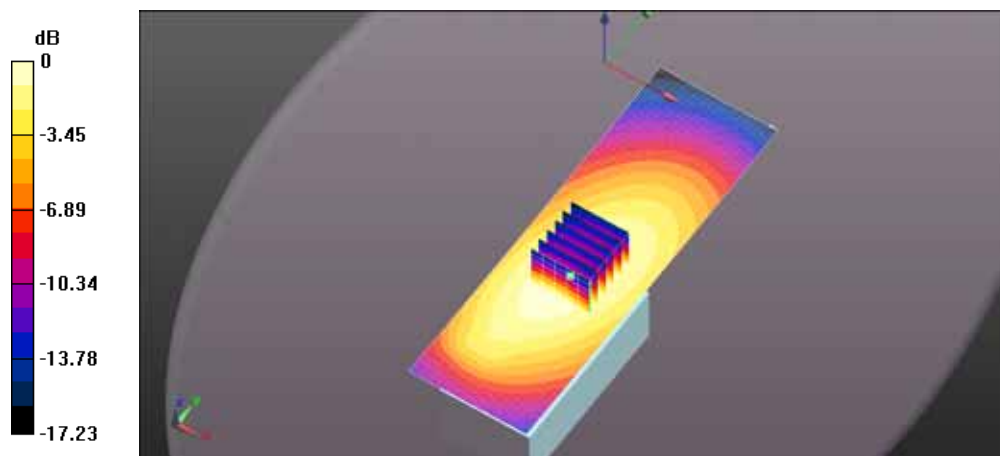
Reference Value = 61.17 V/m; Power Drift = -0.34 dB

Peak SAR (extrapolated) = 4.94 W/kg

SAR(1 g) = 3.4 W/kg; SAR(10 g) = 2.44 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 3.84 W/kg



0 dB = 3.94 W/kg = 5.95 dBW/kg

File Name: [ICOM-643 BP320EX S88UG 452.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 54.946$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q prescan 452.5 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 4.32 W/kg

ICOM 643Q prescan 452.5 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

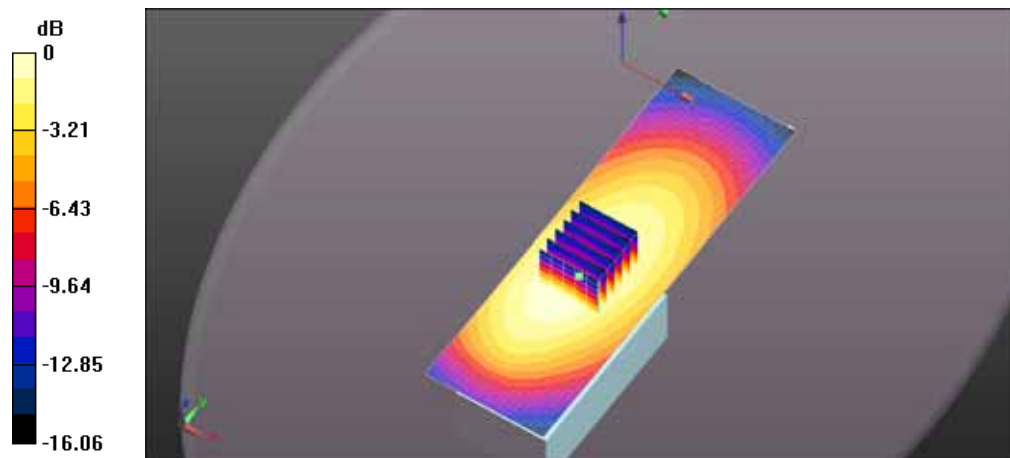
Reference Value = 63.82 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 5.43 W/kg

SAR(1 g) = 3.78 W/kg; SAR(10 g) = 2.74 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 4.22 W/kg



0 dB = 4.32 W/kg = 6.35 dBW/kg

File Name: [ICOM-643 BP320EX S88UG 452.5MHz LC208 MB133EX.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 54.946$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q prescan 452.5 MHz Body BP320EX LC208 MB133EX/Body - Belt Clip
Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 3.52 W/kg

ICOM 643Q prescan 452.5 MHz Body BP320EX LC208 MB133EX/Body - Belt Clip
Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 58.04 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 4.16 W/kg

SAR(1 g) = 2.94 W/kg; SAR(10 g) = 2.14 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 3.29 W/kg

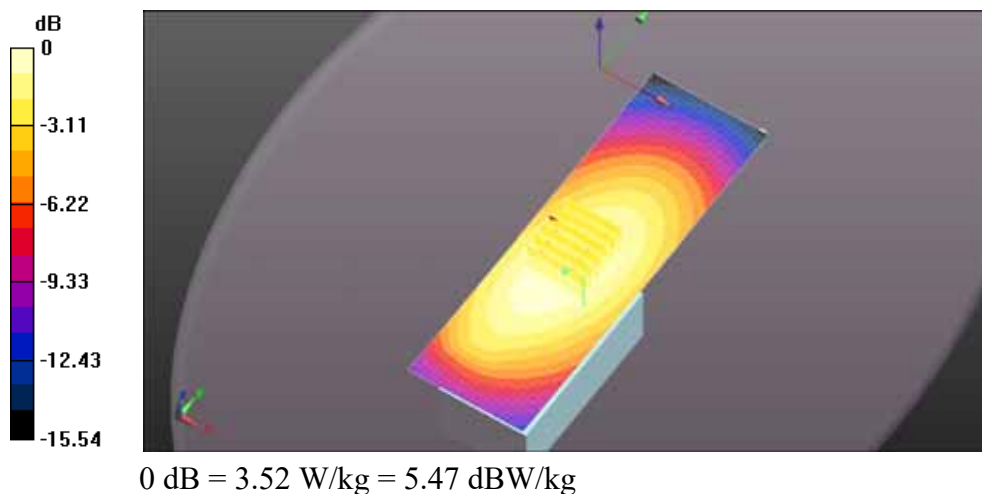


EXHIBIT 3. MEASUREMENT

BODY (BP-320EX AND LC208)						
Antenna	Power (W)	Channel	MHz	1g	10g	Power Drift (dB)
FA-S87UG	2.09	1	400.0			
	2.2	2	417.5	3.98	2.9	-0.19
	2.2	3	435.0			
	2.23	4	452.5	3.15	2.28	-0.23
	2.17	5	470.0	2.53	1.82	-0.54
FA-S88UG	2.09	1	400.0			
	2.2	2	417.5	3.63	2.64	-0.25
	2.2	3	435.0			
	2.23	4	452.5	3.67	2.68	-0.28
	2.17	5	470.0	3.66	2.63	-0.27
FA-S89UGS	2.09	1	400.0			
	2.2	2	417.5	3.37	2.45	-0.35
	2.2	3	435.0			
	2.23	4	452.5	3.28	2.39	-0.18
	2.17	5	470.0	3.32	2.41	-0.56

File Name: [ICOM-643 BP320EX S88UG 452.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 54.946$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q 452.5 S88UG MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 4.35 W/kg

ICOM 643Q 452.5 S88UG MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

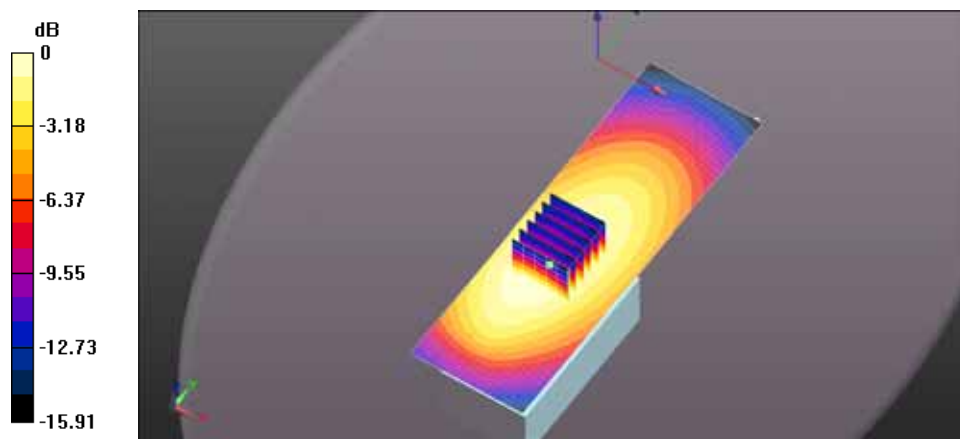
Reference Value = 62.71 V/m; Power Drift = -0.28 dB

Peak SAR (extrapolated) = 5.28 W/kg

SAR(1 g) = 3.67 W/kg; SAR(10 g) = 2.68 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 4.14 W/kg



0 dB = 4.35 W/kg = 6.39 dBW/kg

File Name: [ICOM-643 BP320EX S88UG 417.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 417.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 417.5$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.532$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q 417.5 S88UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 4.19 W/kg

ICOM 643Q 417.5 S88UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm

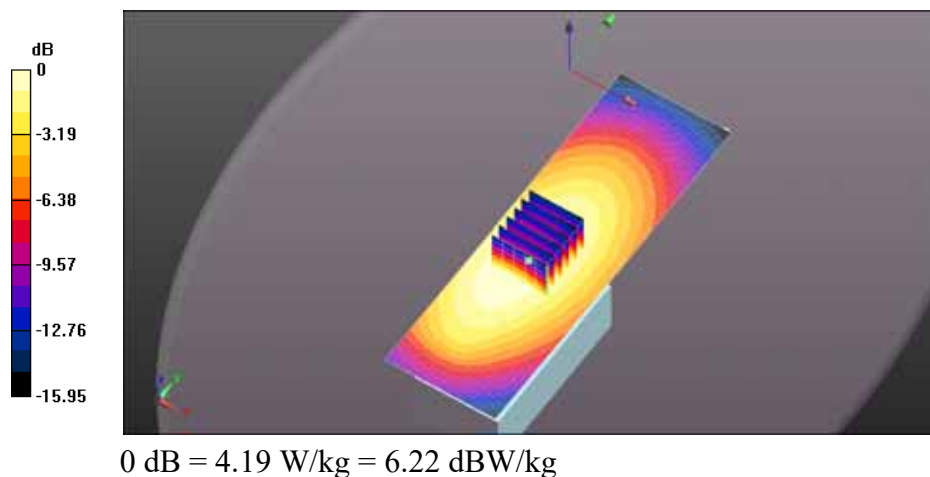
Reference Value = 61.68 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 3.63 W/kg; SAR(10 g) = 2.64 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 4.08 W/kg



File Name: [ICOM-643 BP320EX S88UG 470MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 470 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.996 \text{ S/m}$; $\epsilon_r = 54.714$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q 470 S88UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.21 W/kg

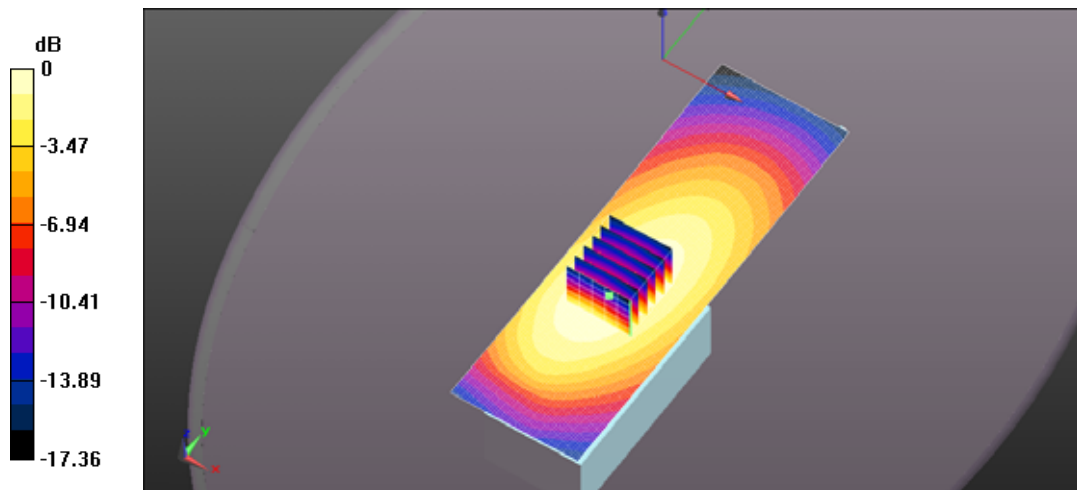
ICOM 643Q 470 S88UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 62.87 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 5.28 W/kg

SAR(1 g) = 3.66 W/kg; SAR(10 g) = 2.63 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.16 W/kg



0 dB = 4.21 W/kg = 6.24 dBW/kg

File Name: [ICOM-643 BP320EX S87UG 452.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 54.946$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q 470 S87UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 3.66 W/kg

ICOM 643Q 470 S87UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm

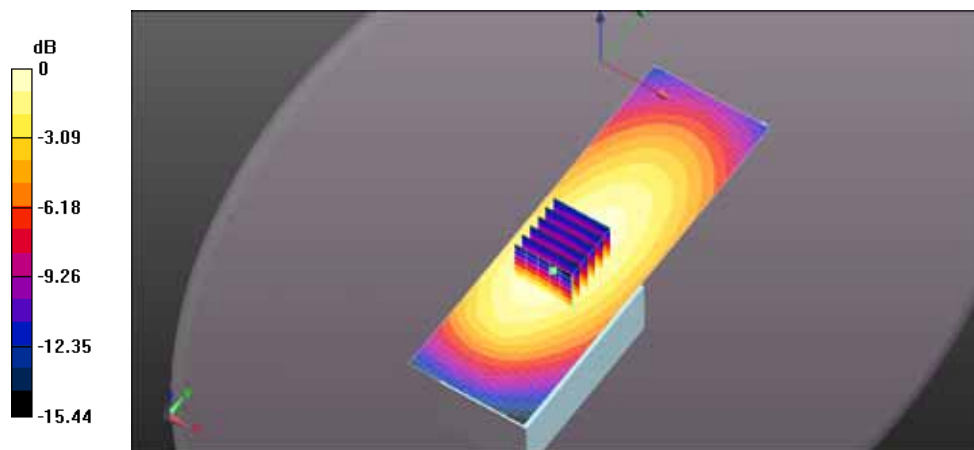
Reference Value = 58.93 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 4.53 W/kg

SAR(1 g) = 3.15 W/kg; SAR(10 g) = 2.28 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 3.53 W/kg



0 dB = 3.66 W/kg = 5.64 dBW/kg

File Name: [ICOM-643 BP320EX S87UG 417.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 417.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 417.5$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.532$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q 417.5 S87UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 4.54 W/kg

ICOM 643Q 417.5 S87UG MHz Body BP320EX LC208/Body - Belt Clip Touching,
d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid:
dx=7.5mm, dy=7.5mm, dz=5mm

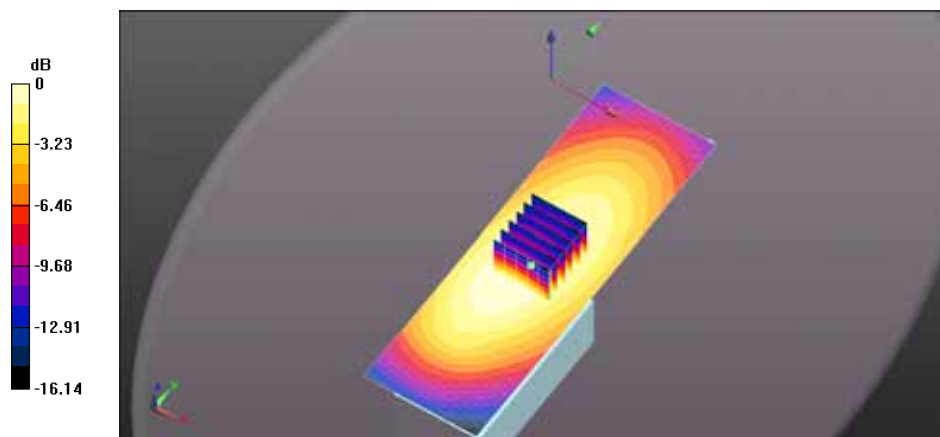
Reference Value = 68.47 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 5.68 W/kg

SAR(1 g) = 3.98 W/kg; SAR(10 g) = 2.9 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 4.46 W/kg



0 dB = 4.54 W/kg = 6.57 dBW/kg

File Name: [ICOM-643 BP320EX S87UG 470MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 470 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470$ MHz; $\sigma = 0.996$ S/m; $\epsilon_r = 54.714$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S87UG 470MHz Body BP320EX LC208/Body - Belt Clip Touching, $d=0$ mm, $P_{in}=2$ W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 2.99 W/kg

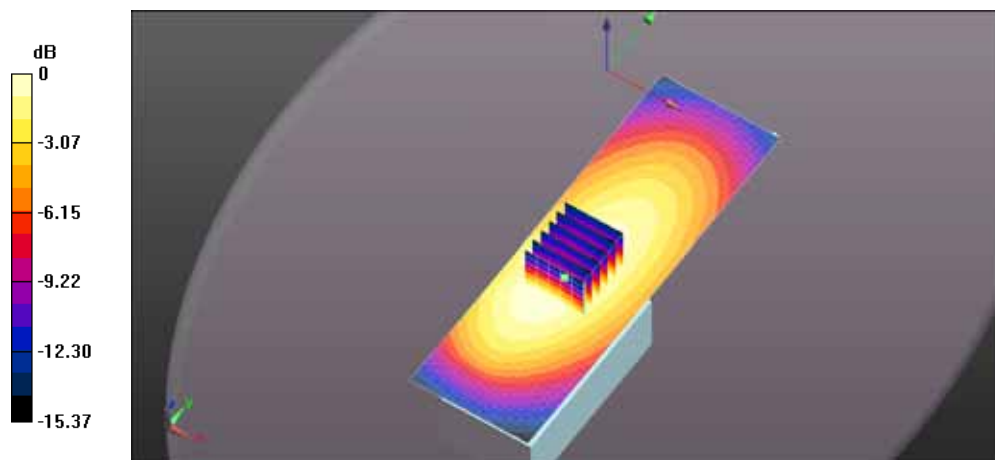
ICOM 643Q S87UG 470MHz Body BP320EX LC208/Body - Belt Clip Touching, $d=0$ mm, $P_{in}=2$ W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 53.02 V/m; Power Drift = -0.54 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.82 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.99 W/kg = 4.76 dBW/kg

File Name: [ICOM-643 BP320EX S89UGS 452.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 54.946$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S89UGS 452.5 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 3.81 W/kg

ICOM 643Q S89UGS 452.5 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

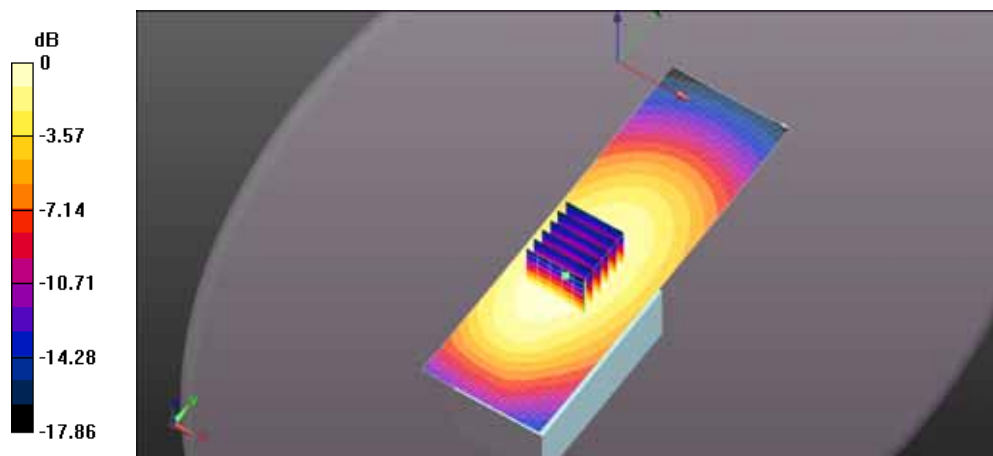
Reference Value = 58.34 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.64 W/kg

SAR(1 g) = 3.28 W/kg; SAR(10 g) = 2.39 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 3.69 W/kg



0 dB = 3.81 W/kg = 5.81 dBW/kg

File Name: [ICOM-643 BP320EX S89UGS 417.5MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 417.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 417.5$ MHz; $\sigma = 0.95$ S/m; $\epsilon_r = 55.532$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S89UGS 417.5 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 3.94 W/kg

ICOM 643Q S89UGS 417.5 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

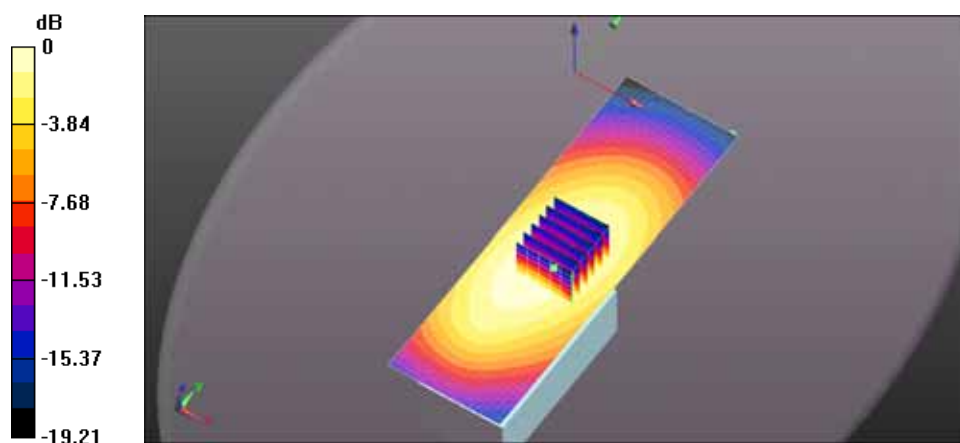
Reference Value = 63.49 V/m; Power Drift = -0.35 dB

Peak SAR (extrapolated) = 4.80 W/kg

SAR(1 g) = 3.37 W/kg; SAR(10 g) = 2.45 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 3.79 W/kg



0 dB = 3.94 W/kg = 5.95 dBW/kg

File Name: [ICOM-643 BP320EX S89UGS 470MHz LC208.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 470 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470$ MHz; $\sigma = 0.996$ S/m; $\epsilon_r = 54.714$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.96, 6.96, 6.96); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S89UGS 470 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 3.91 W/kg

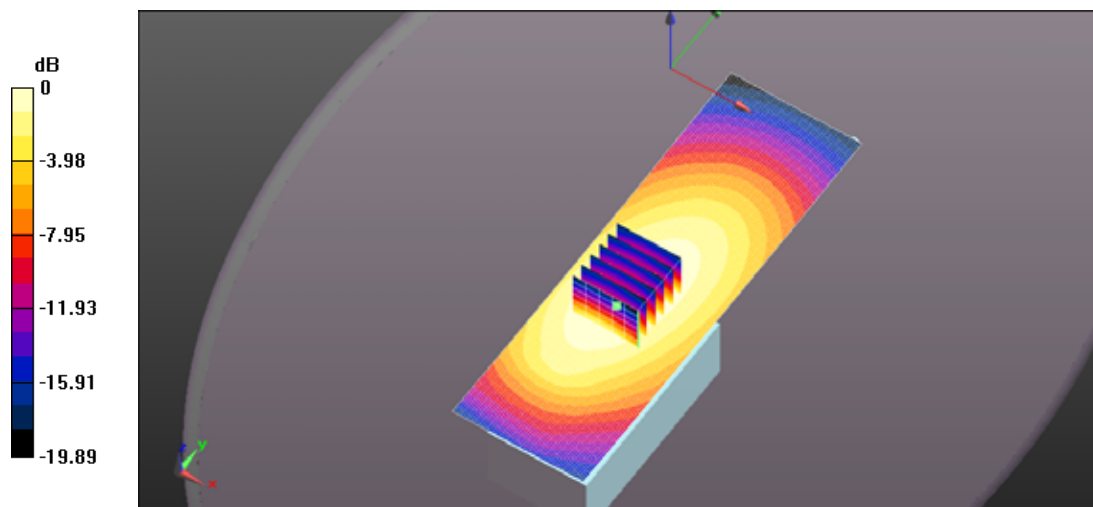
ICOM 643Q S89UGS 470 MHz Body BP320EX LC208/Body - Belt Clip Touching, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 61.59 V/m; Power Drift = -0.56 dB

Peak SAR (extrapolated) = 4.73 W/kg

SAR(1 g) = 3.32 W/kg; SAR(10 g) = 2.41 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.76 W/kg



0 dB = 3.91 W/kg = 5.92 dBW/kg

EXHIBIT 4. HEAD SAR MEASUREMENT

HEAD (BP-320EX)						
Antenna	Power (W)	Channel	MHz	1g	10g	Power Drift (dB)
FA-S87UG	2.09	1	400.0			
	2.2	2	417.5	3.52	2.45	-0.63
	2.2	3	435.0			
	2.23	4	452.5	3.85	2.13	-0.07
	2.17	5	470.0	1.74	1.27	-0.44
FA-S88UG	2.09	1	400.0			
	2.2	2	417.5	2.07	1.53	-0.22
	2.2	3	435.0			
	2.23	4	452.5	2.52	1.86	-0.21
	2.17	5	470.0	2.19	1.6	-0.33
FA-S89UGS	2.09	1	400.0			
	2.2	2	417.5	1.72	1.27	-0.25
	2.2	3	435.0			
	2.23	4	452.5	2.31	1.69	-0.29
	2.17	5	470.0	2.19	1.6	-0.32

File Name: [ICOM-643 Head BP320EX S87UG 417MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 417.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 417.5$ MHz; $\sigma = 0.804$ S/m; $\epsilon_r = 44.18$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S87UG 417.5 MHz Head BP320EX/Head, d=0mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 3.90 W/kg

ICOM 643Q S87UG 417.5 MHz Head BP320EX/Head, d=0mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

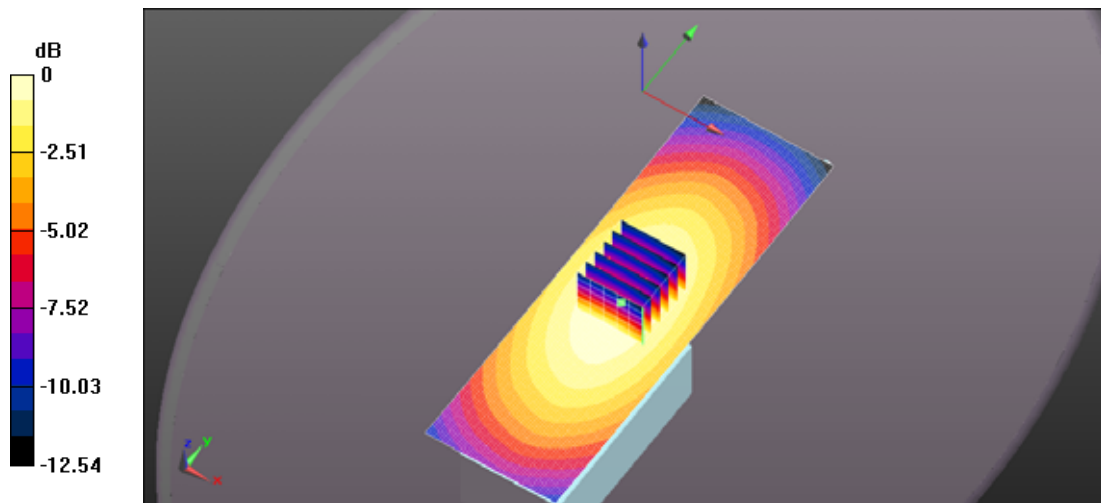
Reference Value = 70.86 V/m; Power Drift = -0.63 dB

Peak SAR (extrapolated) = 4.55 W/kg

SAR(1 g) = 3.3 W/kg; SAR(10 g) = 2.45 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 3.68 W/kg



0 dB = 3.90 W/kg = 5.91 dBW/kg

File Name: [ICOM-643 Head BP320EX S87UG 452MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 452$ MHz; $\sigma = 0.835$ S/m; $\epsilon_r = 43.573$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S87UG 452.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 2.84 W/kg

ICOM 643Q S87UG 452.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

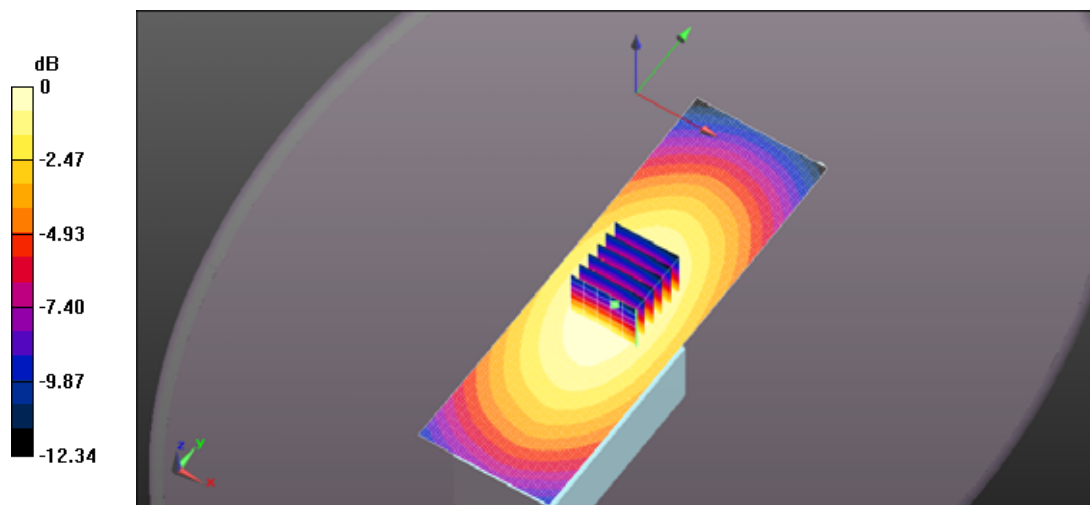
Reference Value = 57.14 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 9.61 W/kg

SAR(1 g) = 3.85 W/kg; SAR(10 g) = 2.13 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 2.77 W/kg



0 dB = 2.84 W/kg = 4.53 dBW/kg

File Name: [ICOM-643 Head BP320EX S87UG 470MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 470 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470$ MHz; $\sigma = 0.853$ S/m; $\epsilon_r = 43.054$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S87UG 470 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

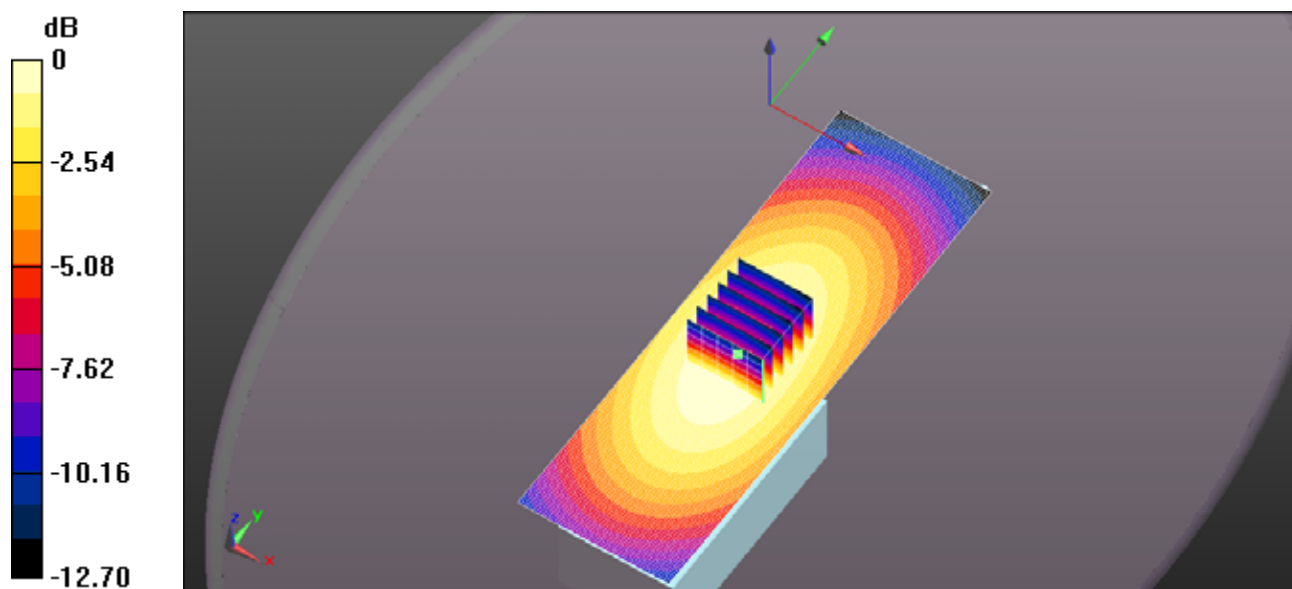
ICOM 643Q S87UG 470 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 49.02 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 1.74 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg

File Name: [ICOM-643 Head BP320EX S88UG 470MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 470 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470$ MHz; $\sigma = 0.853$ S/m; $\epsilon_r = 43.054$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S88UG 470 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.48 W/kg

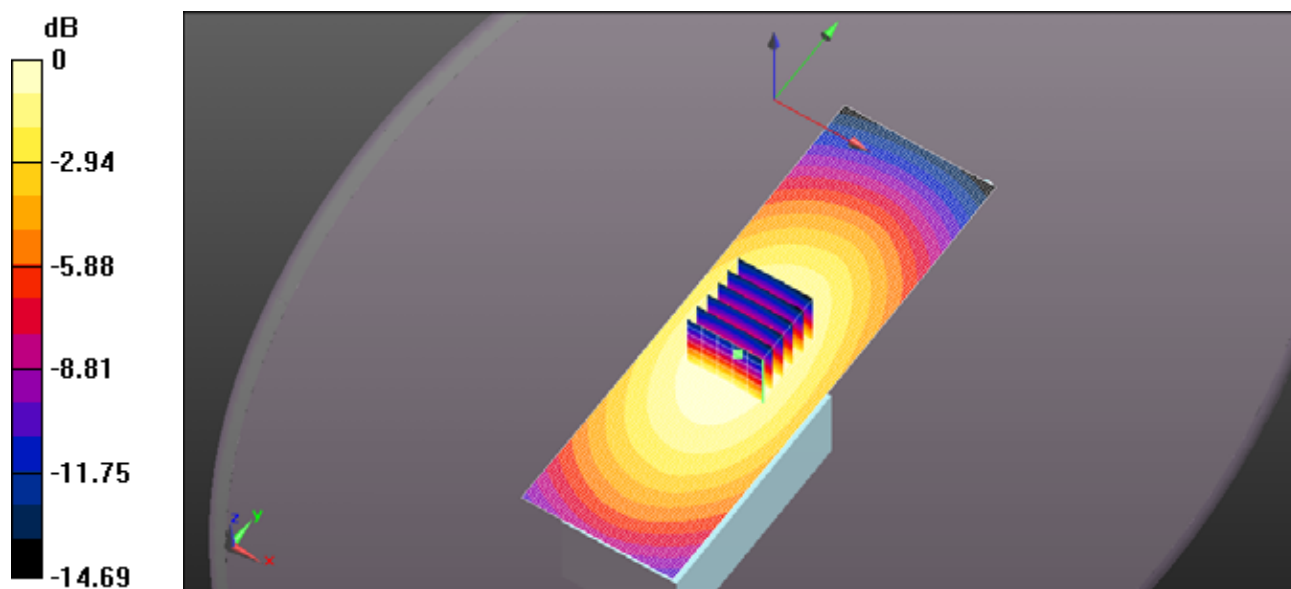
ICOM 643Q S88UG 470 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 53.57 V/m; Power Drift = -0.33 dB

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.48 W/kg = 3.95 dBW/kg

File Name: [ICOM-643 Head BP320EX S88UG 452MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 452$ MHz; $\sigma = 0.835$ S/m; $\epsilon_r = 43.573$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S88UG 452 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 2.91 W/kg

ICOM 643Q S88UG 452 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

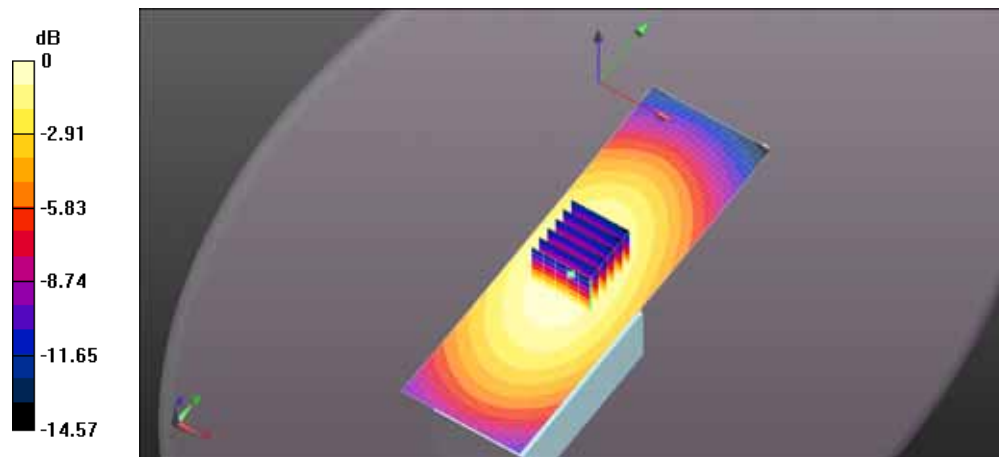
Reference Value = 57.06 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.86 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.91 W/kg = 4.64 dBW/kg

File Name: [ICOM-643 Head BP320EX S88UG 417.5MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 417.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 417.5$ MHz; $\sigma = 0.804$ S/m; $\epsilon_r = 44.18$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S88UG 417.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 2.38 W/kg

ICOM 643Q S88UG 417.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

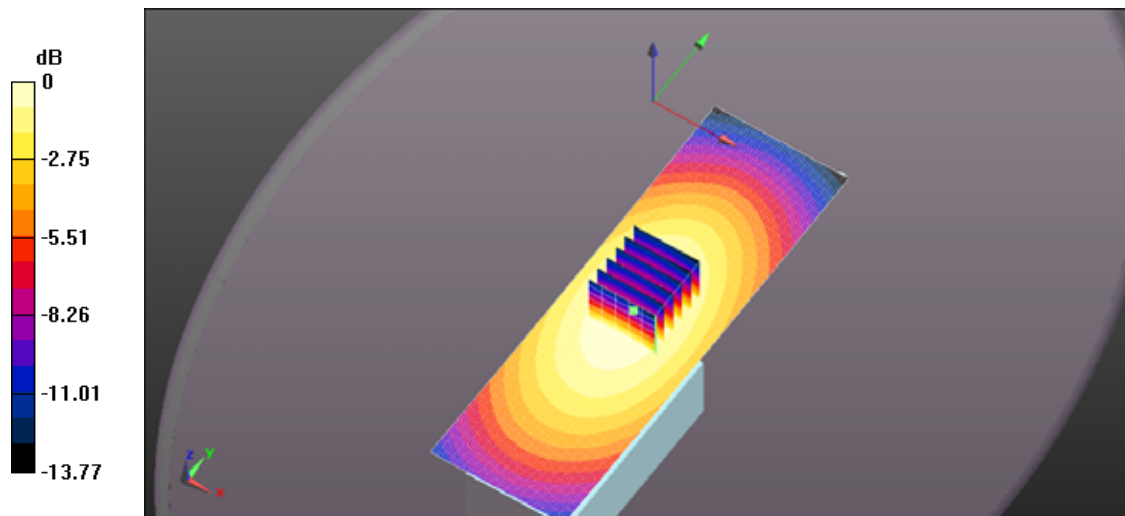
Reference Value = 53.96 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.53 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 2.32 W/kg



0 dB = 2.38 W/kg = 3.77 dBW/kg

File Name: [ICOM-643 Head BP320EX S89UGS 417.5MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 417.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 417.5$ MHz; $\sigma = 0.804$ S/m; $\epsilon_r = 44.18$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S89UGS 417.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 1.97 W/kg

ICOM 643Q S89UGS 417.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

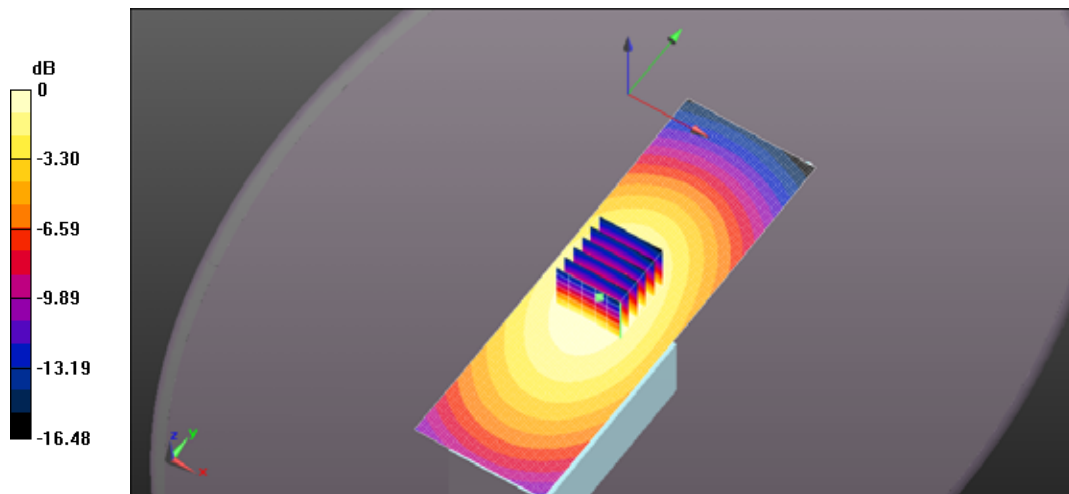
Reference Value = 47.51 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 1.72 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

File Name: [ICOM-643 Head BP320EX S89UGS 452.5MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 452.5 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 452.5$ MHz; $\sigma = 0.836$ S/m; $\epsilon_r = 43.566$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S89UGS 452.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

Maximum value of SAR (interpolated) = 2.65 W/kg

ICOM 643Q S89UGS 452.5 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

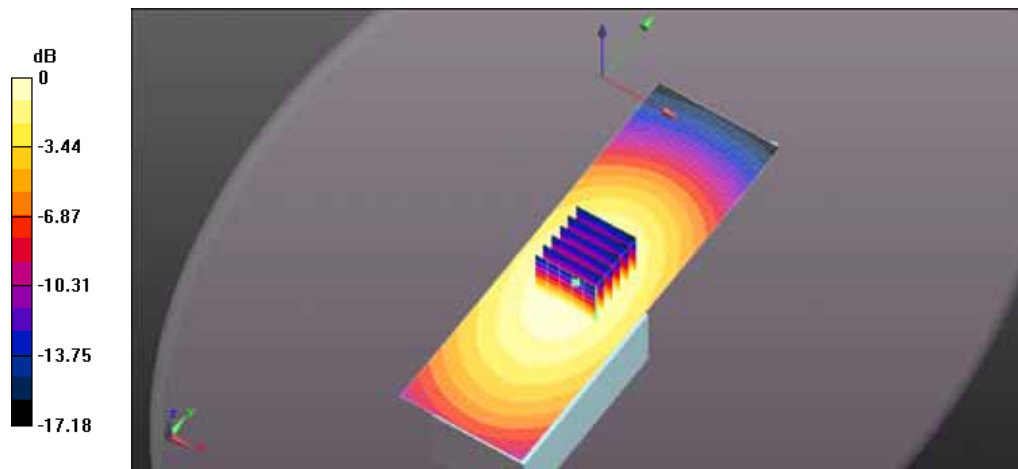
Reference Value = 55.53 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.69 W/kg (SAR corrected for target medium)

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

Maximum value of SAR (measured) = 2.59 W/kg



0 dB = 2.65 W/kg = 4.24 dBW/kg

File Name: [ICOM-643 Head BP320EX S89UGS 470MHz.da52:0](#)

DUT: DUT Sample Brick w. Antenna; Type: Sample; Serial: IMEI Number

Communication System: UID 10000, CW; Frequency: 470 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 470$ MHz; $\sigma = 0.853$ S/m; $\epsilon_r = 43.054$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.8, 6.8, 6.8); Calibrated: 3/20/2026;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 7/29/2025
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

ICOM 643Q S89UGS 470 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Area Scan (51x161x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

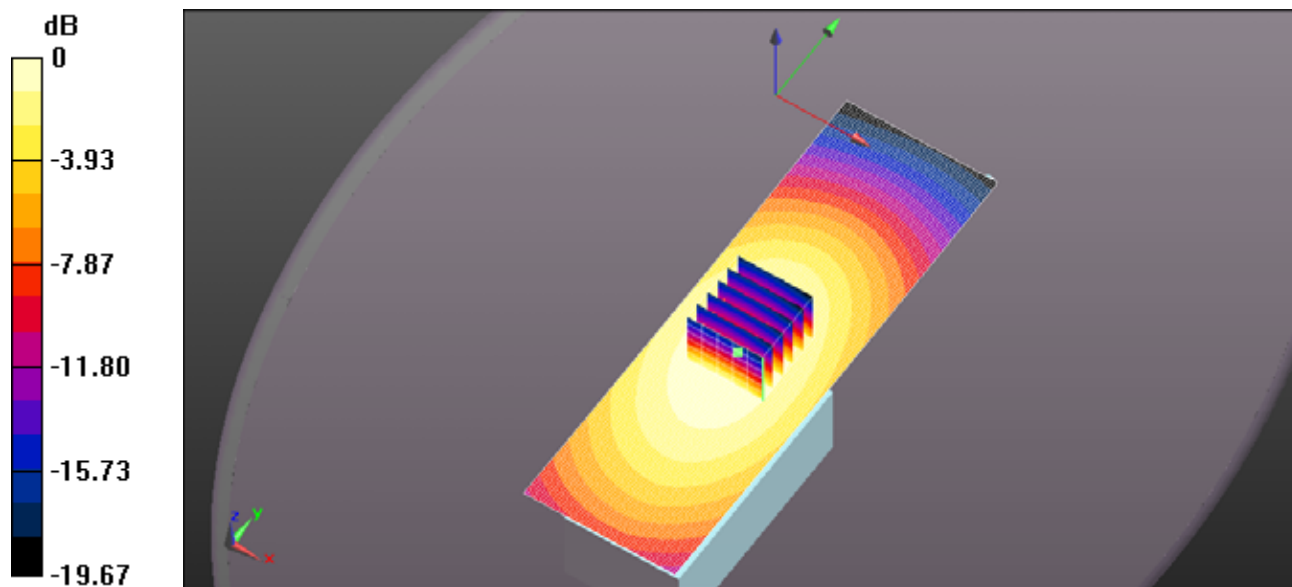
ICOM 643Q S89UGS 470 MHz Head BP320EX/Head, d=25mm, Pin=2W (ES-Probe)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 52.90 V/m; Power Drift = -0.32 dB

Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.6 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.54 W/kg = 4.04 dBW/kg