

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. HEAD 150 MHZ SAR MEASUREMENTS (BP-252)

Head 150 MHz SAR Measurement Summary

Antenna	Power (W)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift
			(MHz)	BP-252	BP-252	(dB)
				1050mAh	1050mAh	
FA-S61V	2.028	6	156.3	0.232	0.175	0.01
	2.048	71	156.575	0.222	0.167	-0.01
	2.061	77	156.875	0.220	0.166	0.05

File Name: [ICOM-589Q Head IC-GM1600 156.3MHz BP-252.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.3 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.3$ MHz; $\sigma = 0.752$ S/m; $\epsilon_r = 52.35$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-GM1600/Front to face, d=25mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.254 W/kg

Configuration_Head_IC-GM1600/Front to face, d=25mm/Zoom Scan (5x5x7)

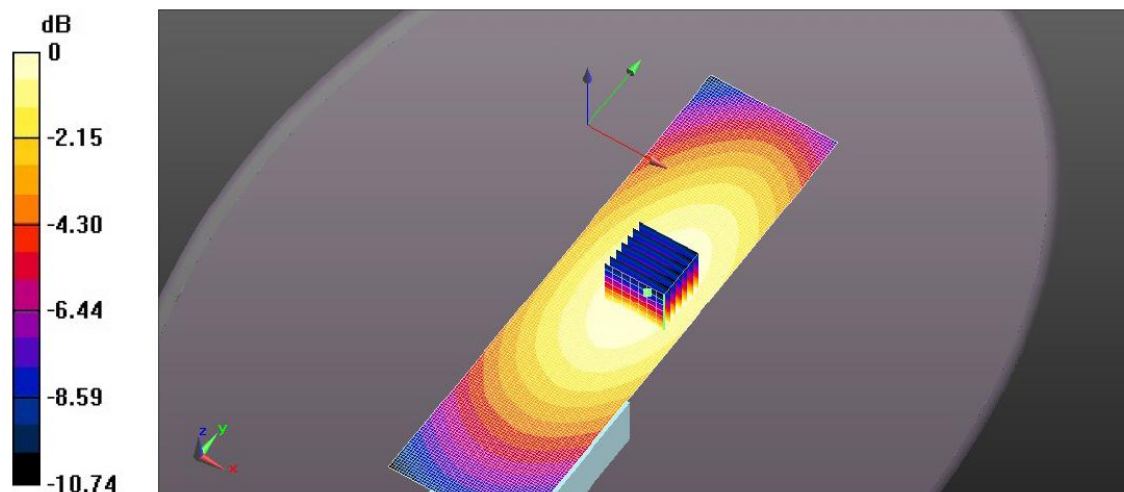
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.97 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.175 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.254 W/kg = -5.96 dBW/kg

File Name: [ICOM-589Q Head IC-GM1600 156.575MHz BP-252.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.575 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.575$ MHz; $\sigma = 0.752$ S/m; $\epsilon_r = 52.35$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-GM1600/Front to face, d=25mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.245 W/kg

Configuration_Head_IC-GM1600/Front to face, d=25mm/Zoom Scan (5x5x7)

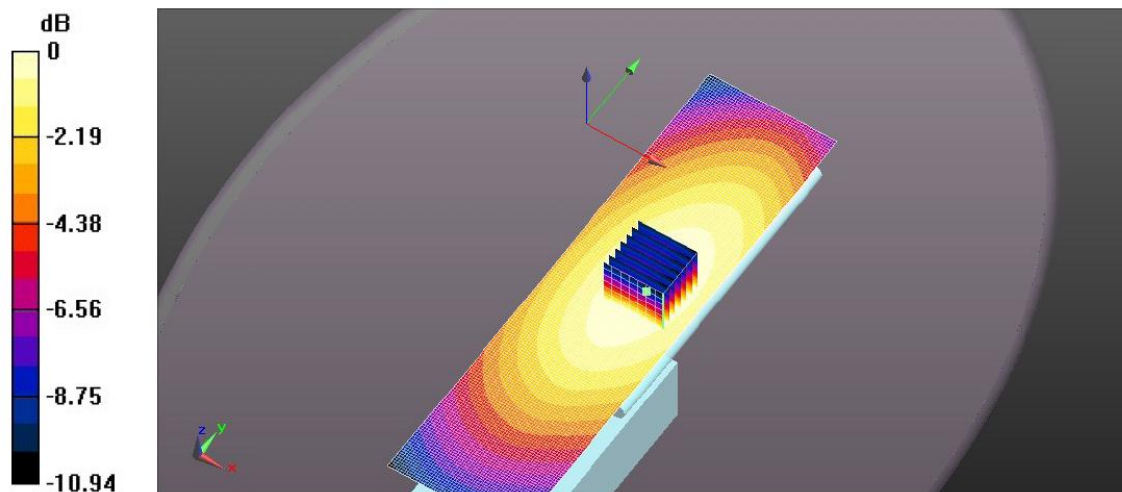
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.59 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.167 W/kg (SAR corrected for target medium)

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



0 dB = 0.245W/kg = -6.11 dBW/kg

File Name: [ICOM-589Q Head IC-GM1600 156.875MHz BP-252.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.875 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.875$ MHz; $\sigma = 0.752$ S/m; $\epsilon_r = 52.349$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-GM1600/Front to face, d=25mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.240 W/kg

Configuration_Head_IC-GM1600/Front to face, d=25mm/Zoom Scan (5x5x7)

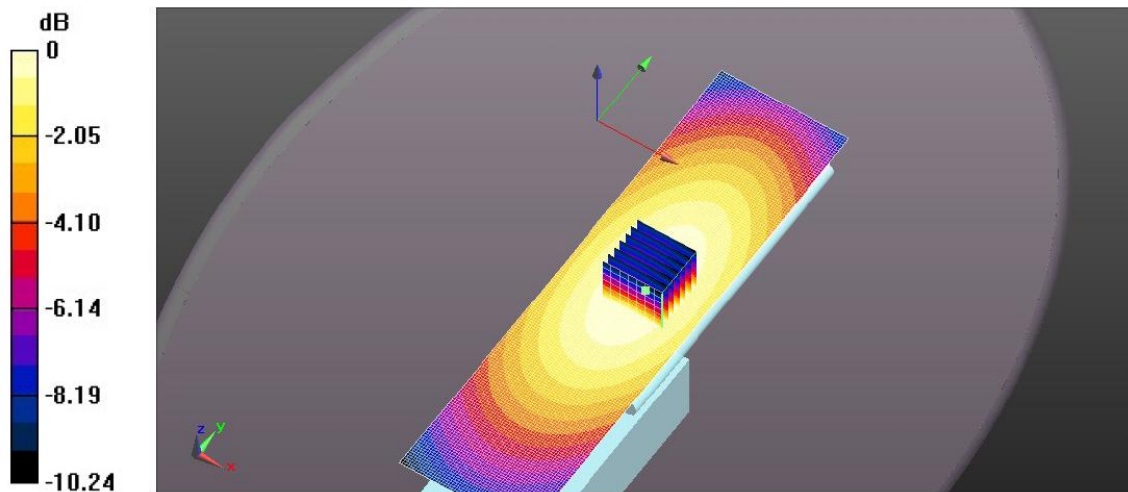
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.85 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.318 W/kg

SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.166 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.240 W/kg = -6.21 dBW/kg

EXHIBIT 2. HEAD 150 MHZ SAR MEASUREMENTS (BP-234)

Head 150 MHz SAR Measurement Summary

Antenna	Power (W)	CH	CH. Freq (MHz)	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift (dB)
				BP-234	BP-234	
FA-S61V	2.006	6	156.3	0.242	0.184	-0.04
	1.995	71	156.575	0.230	0.174	0
	2.010	77	156.875	0.224	0.170	-0.03

File Name: [ICOM-589Q Head IC-GM1600 156.3MHz BP-234.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.3 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.3$ MHz; $\sigma = 0.752$ S/m; $\epsilon_r = 52.35$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-GM1600/Front to face, d=25mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.269 W/kg

Configuration_Head_IC-GM1600/Front to face, d=25mm/Zoom Scan (5x5x7)

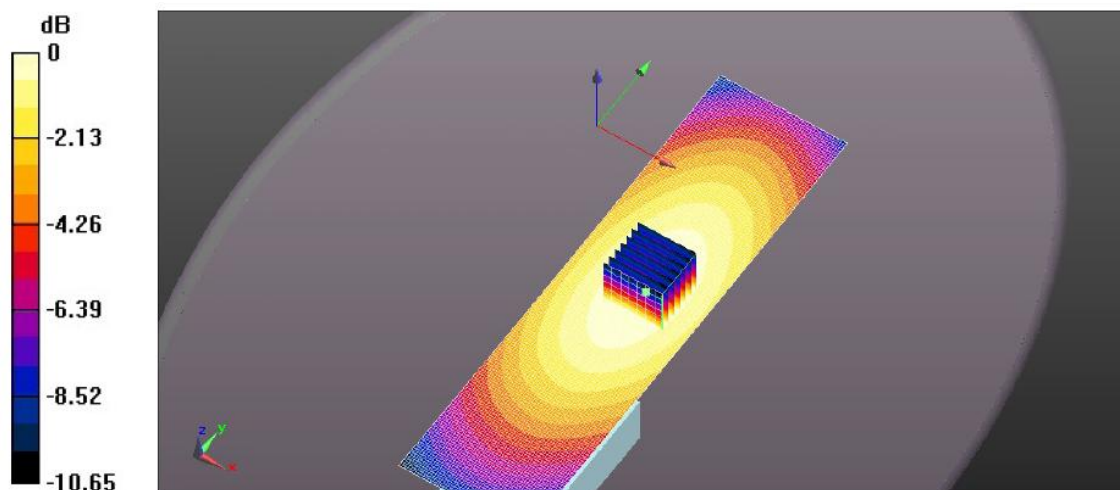
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.77 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.184 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.270 W/kg



0 dB = 0.269 W/kg = -5.70 dBW/kg

File Name: [ICOM-589Q Head IC-GM1600 156.575MHz BP-234.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.575 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.575$ MHz; $\sigma = 0.752$ S/m; $\epsilon_r = 52.35$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

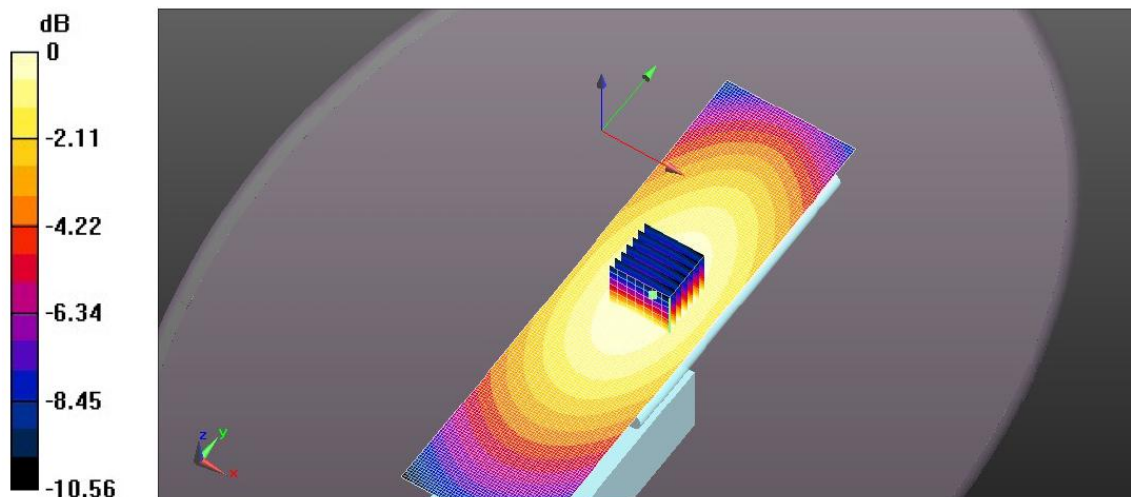
- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-GM1600/Front to face, d=25mm/Area Scan (51x191x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.253 W/kg

Configuration_Head_IC-GM1600/Front to face, d=25mm/Zoom Scan (5x5x7)

(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.22 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.336 W/kg
SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.174 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.253 W/kg = -5.97 dBW/kg

File Name: [ICOM-589Q Head IC-GM1600 156.875MHz BP-234.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.875 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.875$ MHz; $\sigma = 0.752$ S/m; $\epsilon_r = 52.349$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-GM1600/Front to face, d=25mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.247 W/kg

Configuration_Head_IC-GM1600/Front to face, d=25mm/Zoom Scan (5x5x7)

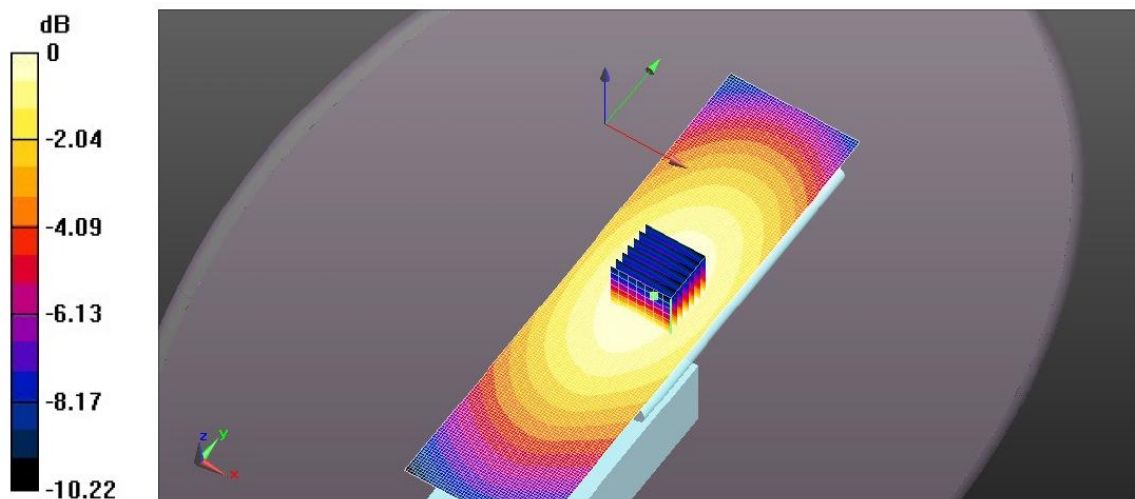
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.18 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.170 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.250 W/kg



0 dB = 0.247 W/kg = -6.07 dBW/kg

EXHIBIT 3. **BODY 150 MHZ SAR MEASUREMENTS (BP-252)**

Body 150 MHz SAR Measurement Summary

Antenna	Power (W)	CH	CH. Freq	Body SAR1g (W/Kg)	Body SAR10g (W/Kg)	Power Drift
			(MHz)	MB-103Y & HM-167	MB-103Y & HM-167	(dB)
				BP-252	BP-252	
FA-S61V	2.028	6	156.3	0.151	0.109	0.14
	2.048	71	156.575	0.139	0.100	0.12
	2.061	77	156.875	0.138	0.0996	0.15

File Name: [ICOM-589Q Body IC-GM1600 156.3MHz BP-252.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.3 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.3$ MHz; $\sigma = 0.841$ S/m; $\epsilon_r = 59.229$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.161 W/kg

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Zoom Scan (5x5x7)

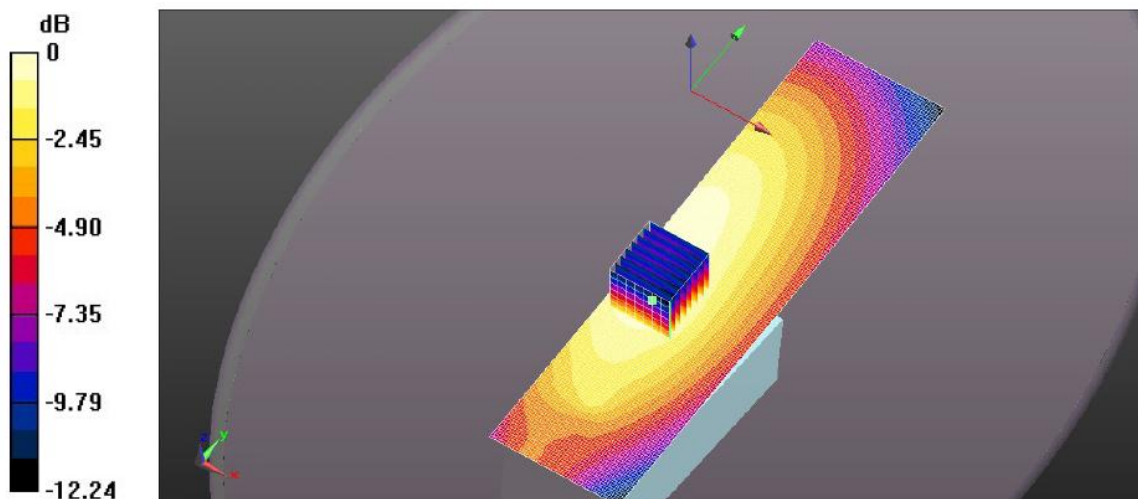
(8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.42 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.250 W/kg

SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.109 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.173 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

File Name: [ICOM-589Q Body IC-GM1600 156.575MHz BP-252.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.575 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.575$ MHz; $\sigma = 0.841$ S/m; $\epsilon_r = 59.222$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.148 W/kg

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Zoom Scan (5x5x7)

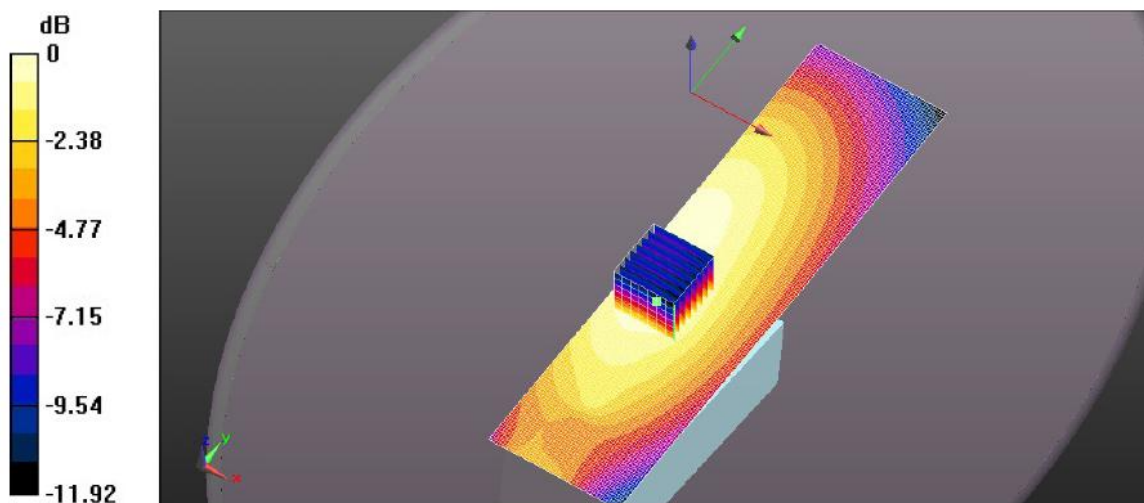
(8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.11 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.100 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.159 W/kg



0 dB = 0.148 W/kg = -8.28 dBW/kg

File Name: [ICOM-589Q Body IC-GM1600 156.875MHz BP-252.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.875 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.875$ MHz; $\sigma = 0.841$ S/m; $\epsilon_r = 59.215$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.149 W/kg

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Zoom Scan (5x5x7)

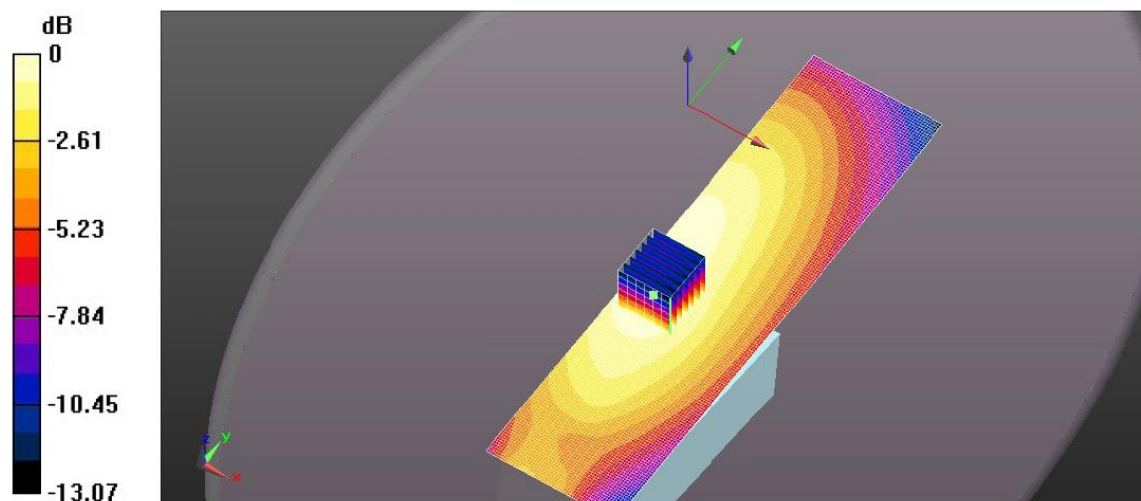
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.82 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.100 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.159 W/kg



0 dB = 0.149 W/kg = -8.25 dBW/kg

EXHIBIT 4. BODY 150 MHZ SAR MEASUREMENTS (BP-234)

Body 150 MHz SAR Measurement Summary

Antenna	Power (W)	CH	CH. Freq	Body SAR1g (W/Kg)	Body SAR10g (W/Kg)	Power Drift
			(MHz)	MB-103Y & HM-167	MB-103Y & HM-167	(dB)
				BP-234	BP-234	
FA-S61V	2.006	6	156.3	0.158	0.112	0.09
	1.995	71	156.575	0.15	0.107	0.12
	2.010	77	156.875	0.149	0.106	0.1

File Name: [ICOM-589Q Body IC-GM1600 156.3MHz BP-234.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.3 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.3$ MHz; $\sigma = 0.841$ S/m; $\epsilon_r = 59.229$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Area Scan (51x191x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.170 W/kg

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Zoom Scan (5x5x7)

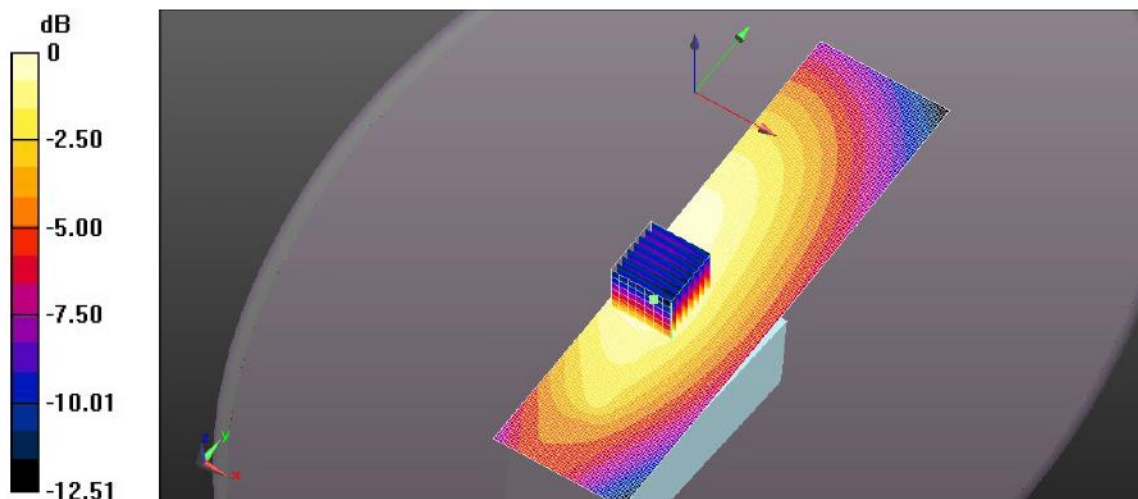
(8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.41 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.112 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.181 W/kg



0 dB = 0.170 W/kg = -7.69 dBW/kg

File Name: [ICOM-589Q Body IC-GM1600 156.575MHz BP-234.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.575 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.575$ MHz; $\sigma = 0.841$ S/m; $\epsilon_r = 59.222$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.167 W/kg

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Zoom Scan (5x5x7)

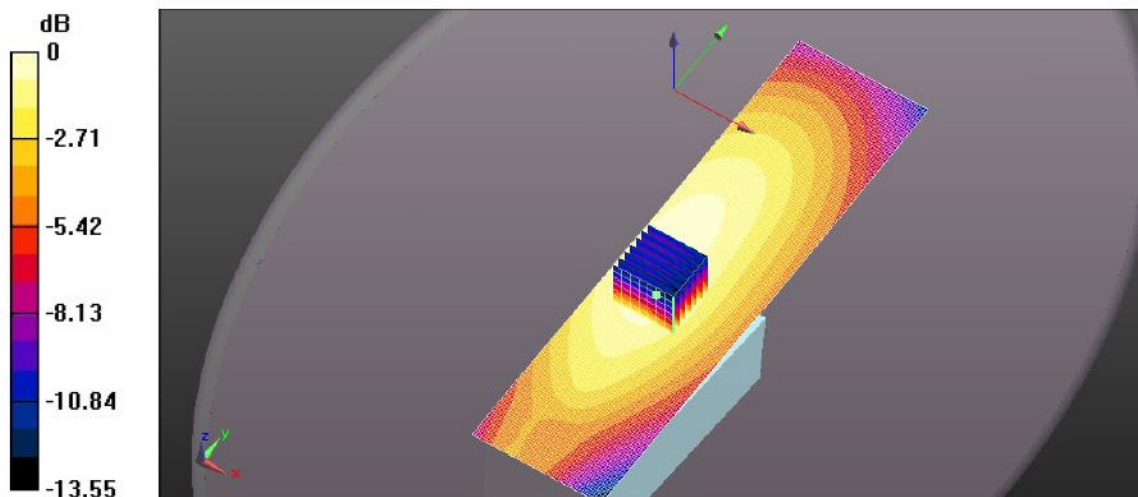
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.16 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.107 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.175 W/kg



0 dB = 0.167 W/kg = -7.76 dBW/kg

File Name: [ICOM-589Q Body IC-GM1600 156.875MHz BP-234.da52:0](#)

DUT: IC-GM1600; Type: VHF Marine Transceiver; Serial: 00000409

Communication System: UID 0, CW (0); Frequency: 156.875 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 156.875$ MHz; $\sigma = 0.841$ S/m; $\epsilon_r = 59.215$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Area Scan (51x191x1):

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

Maximum value of SAR (interpolated) = 0.160 W/kg

Configuration_Body_IC-GM1600/Close to Body, d=0mm/Zoom Scan (5x5x7)

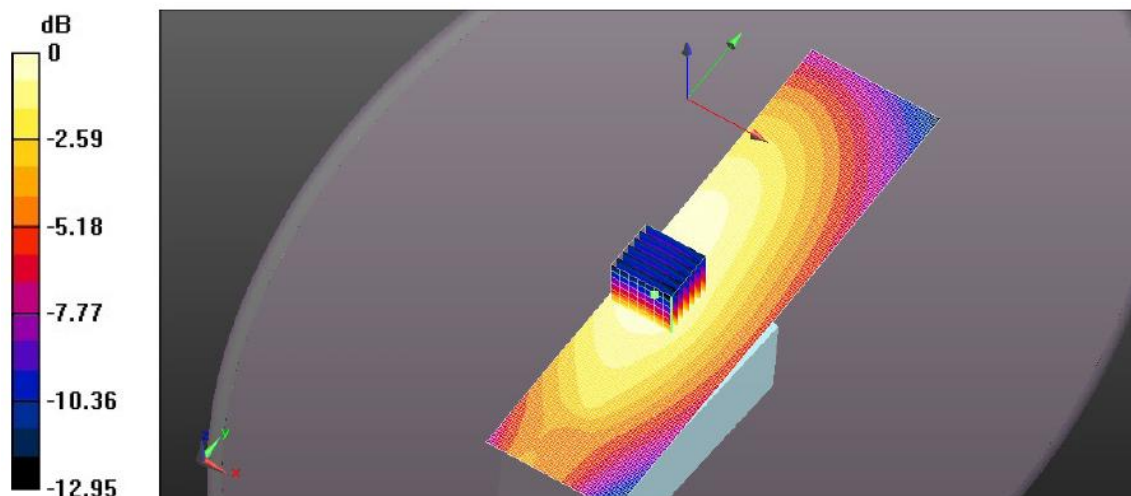
(8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.38 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.256 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.106 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.172 W/kg



0 dB = 0.160 W/kg = -7.97 dBW/kg