

APPENDIX 1

SAR Measurement Data

Contents

EXHIBIT 1. HEAD SAR MEASUREMENTS..... 3

 Head SAR Measurement Summary 3

 FILE NAME: ICOM-538Q HEAD BP-296 156.050MHZ.DA52:0 4

 FILE NAME: ICOM-538Q HEAD BP-296 161.450MHZ.DA52:0 5

EXHIBIT 2. BODY SAR MEASUREMENTS..... 6

 Body SAR Measurements Summary 6

 FILE NAME: ICOM-538Q BODY BP-296 156.050 MHz.DA52:0..... 7

 FILE NAME: ICOM-538Q BODY BP-296 161.450 MHz.DA52:0..... 8

EXHIBIT 1. HEAD SAR MEASUREMENTS

Head SAR Measurement Summary

Antenna	Power (W)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift (dB)
				BP-296	BP-296	
			(MHz)	2350mAh	2350mAh	
FA-SC59V	5.54	01A	156.05	1.74	1.32	-1.97
	5.35	88	157.425	**	**	**
	5.46	F2	161.45	1.83	1.39	-1.41

** SAR Test Reduction Applied For PTT Radio

FILE NAME: ICOM-538Q HEAD BP-296 156.050MHZ.DA52:0

DUT: IC-M37; Type: VHF Transceiver; Serial: 00000215

Communication System: UID 0, CW (0); Frequency: 156.05 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 156.05$ MHz; $\sigma = 0.773$ S/m; $\epsilon_r = 52.603$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.65, 7.65, 7.65); Calibrated: 3/20/2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/13/2020
- 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-M37/Head Front, P=6W, d=25mm/Area Scan (61x161x1):

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

Maximum value of SAR (interpolated) = 2.29 W/kg

Configuration_Head_IC-M37/Head Front, P=6W, d=25mm/Zoom Scan (5x5x7)

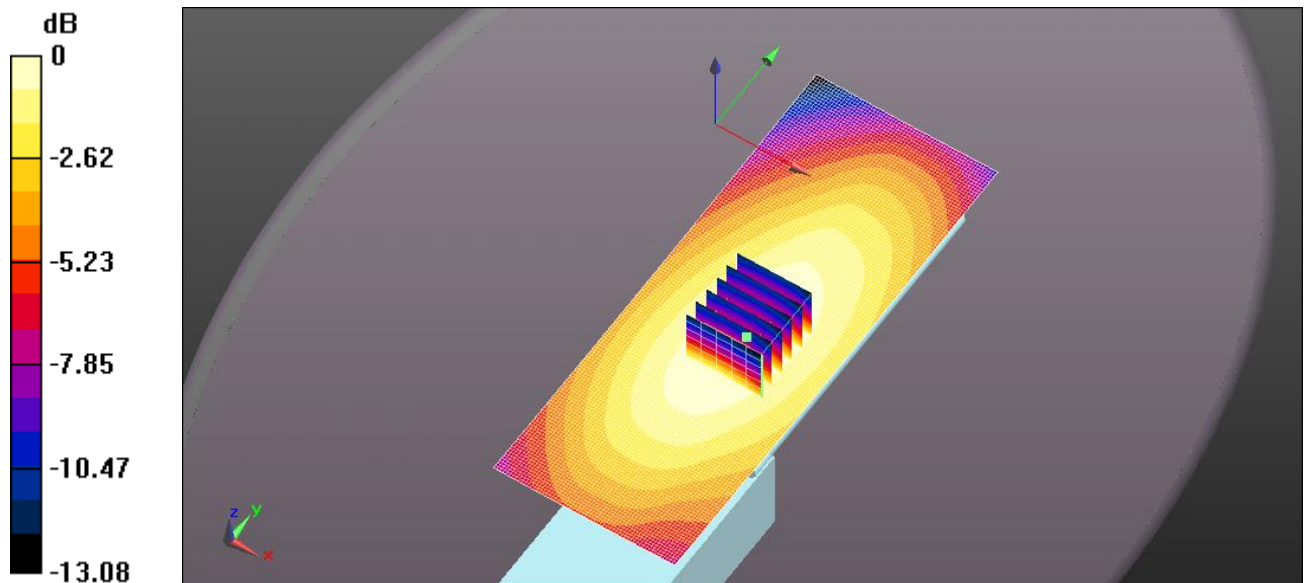
(6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 59.94 V/m; Power Drift = -1.97 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 1.74 W/kg; SAR(10 g) = 1.32 W/kg (SAR corrected for target medium)

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



0 dB = 2.29 W/kg = 3.59 dBW/kg

FILE NAME: ICOM-538Q HEAD BP-296 161.450MHZ.DA52:0

DUT: IC-M37; Type: VHF Transceiver; Serial: 00000215

Communication System: UID 0, CW (0); Frequency: 161.45 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 162$ MHz; $\sigma = 0.78$ S/m; $\epsilon_r = 52.238$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.65, 7.65, 7.65); Calibrated: 3/20/2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/13/2020
- 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-M37/Head Front, P=6W, d=25mm/Area Scan (61x161x1):

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

Maximum value of SAR (interpolated) = 2.23 W/kg

Configuration_Head_IC-M37/Head Front, P=6W, d=25mm/Zoom Scan (5x5x7)

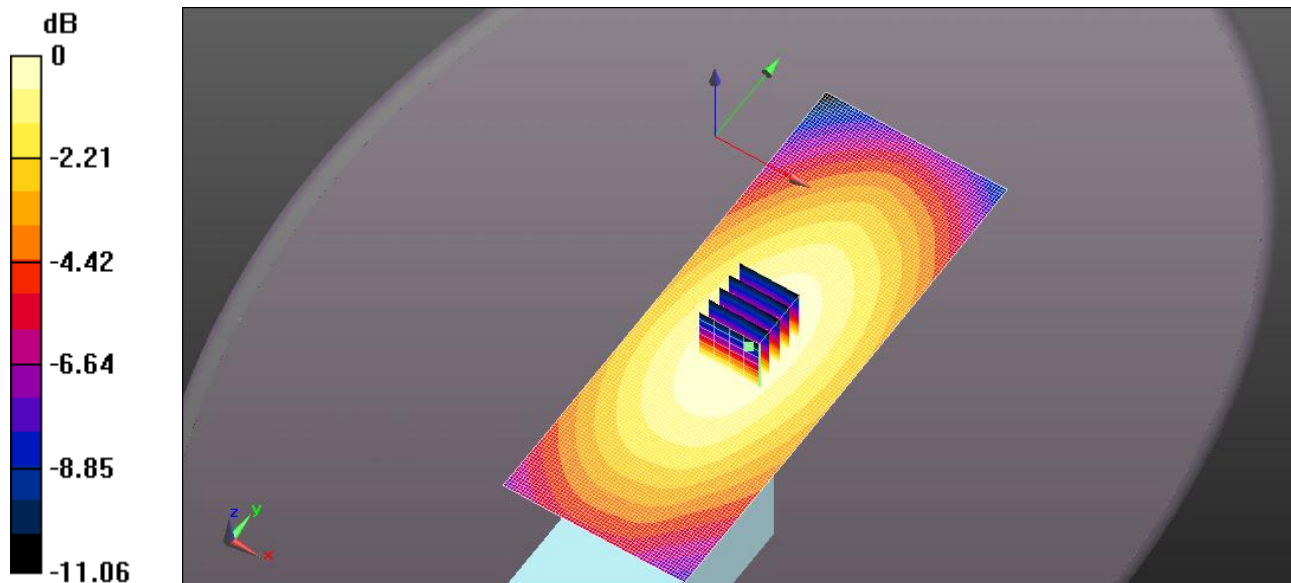
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 57.99 V/m; Power Drift = -1.41 dB

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.83 W/kg; SAR(10 g) = 1.39 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.23 W/kg = 3.48 dBW/kg

EXHIBIT 2. BODY SAR MEASUREMENTS

Body SAR Measurements Summary

Antenna	Power (W)	CH	CH. Freq	Body SAR1g (W/Kg)	Body SAR10g (W/Kg)	Power Drift (dB)
				MB-133 & HM-213	MB-133 & HM-213	
			(MHz)	BP-296,2350mAh	BP-296,2350mAh	
FA-SC59V	5.54	01A	156.05	1.2	0.922	-0.87
	5.35	88	157.425	**	**	**
	5.46	F2	161.45	0.668	0.512	-0.32

** SAR Test Reduction Applied For PTT Radio

FILE NAME: ICOM-538Q BODY BP-296 156.050 MHZ.DA52:0

DUT: IC-M37; Type: VHF Marine Transceiver; Serial: 00000215

Communication System: UID 0, CW; Frequency: 156.05 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 156.05$ MHz; $\sigma = 0.807$ S/m; $\epsilon_r = 60.707$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.35, 7.35, 7.35); Calibrated: 3/20/2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/13/2020
- 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-M37/Front to Face, P=6W, d=0mm/Area Scan (61x191x1):

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

Maximum value of SAR (interpolated) = 1.41 W/kg

Configuration_Body_IC-M37/Front to Face, P=6W, d=0mm/Zoom Scan (5x5x7)

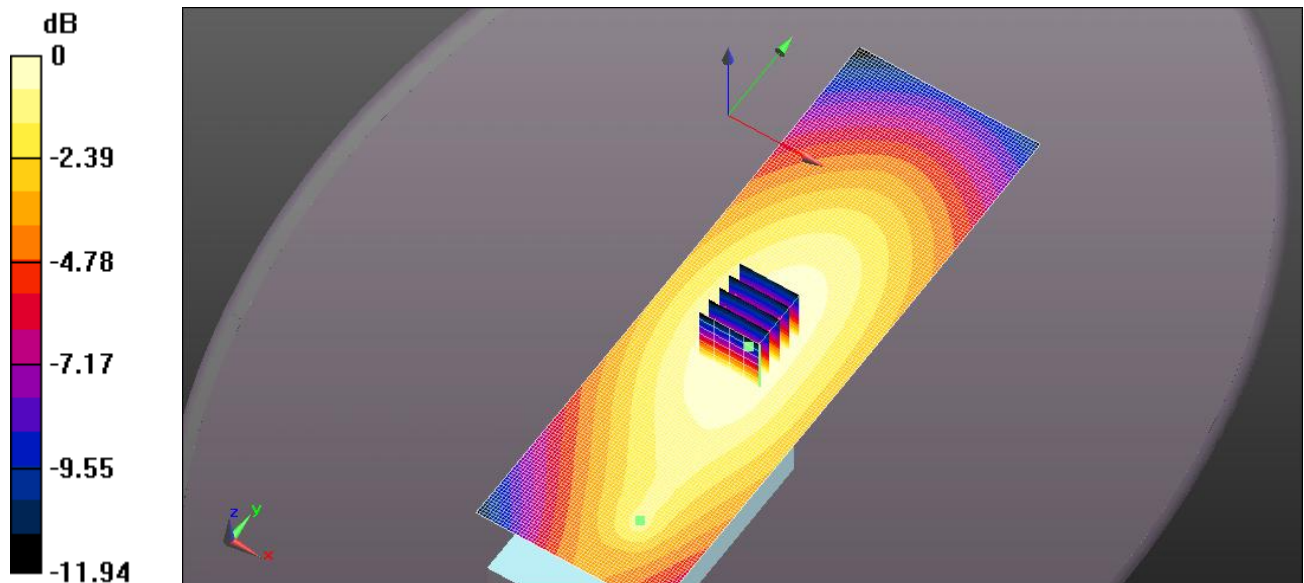
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 44.04 V/m; Power Drift = -0.87 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.922 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.41 W/kg = 1.50 dBW/kg

FILE NAME: ICOM-538Q BODY BP-296 161.450 MHZ.DA52:0

DUT: IC-M37; Type: VHF Marine Transceiver; Serial: 00000215

Communication System: UID 0, CW; Frequency: 161.45 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 162 \text{ MHz}$; $\sigma = 0.811 \text{ S/m}$; $\epsilon_r = 60.691$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.35, 7.35, 7.35); Calibrated: 3/20/2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/13/2020
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-M37/Front to Face, P=6W, d=0mm/Area Scan (61x191x1):

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

Maximum value of SAR (interpolated) = 0.728 W/kg

Configuration_Body_IC-M37/Front to Face, P=6W, d=0mm/Zoom Scan (5x5x7)

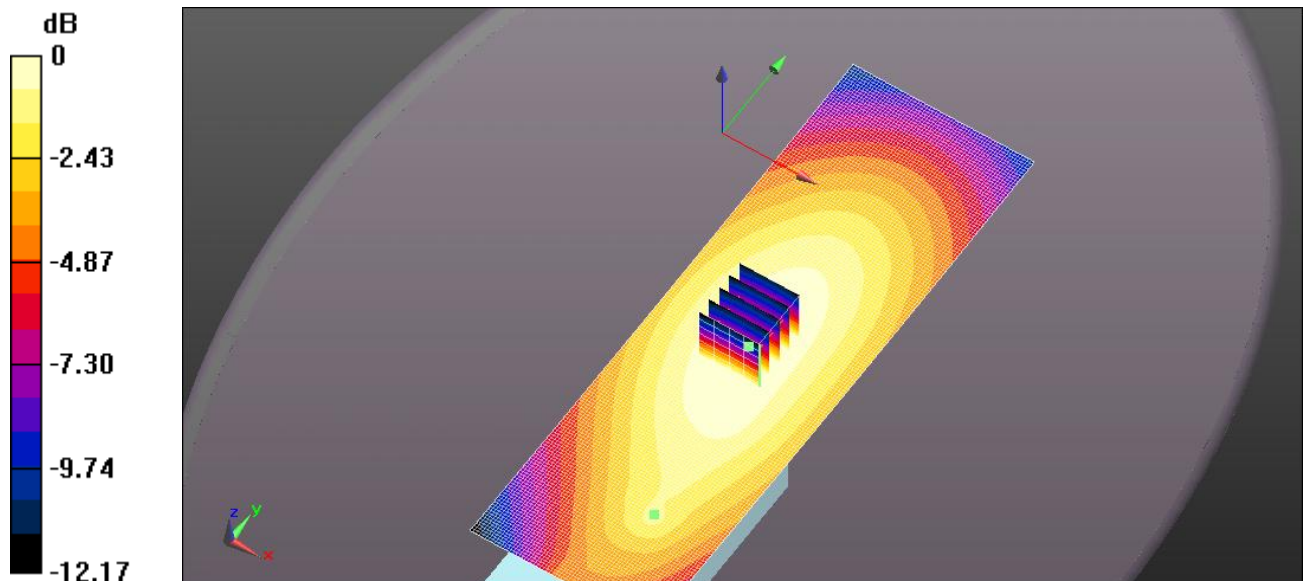
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.72 V/m ; Power Drift = -0.32 dB

Peak SAR (extrapolated) = 0.946 W/kg

SAR(1 g) = 0.668 W/kg ; SAR(10 g) = 0.512 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.743 W/kg



0 dB = 0.728 W/kg = -1.38 dBW/kg