

# APPENDIX 1

## SAR Measurement Data

Contents

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

    Head SAR Measurement Summary..... 3

    FILE NAME: ICOM-508Q HEAD BP-296 161.425MHZ.DA52:0 ..... 4

    FILE NAME: ICOM-508Q HEAD BP-296 156.050MHZ.DA52:0 ..... 5

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

    Body SAR Measurements Summary..... 6

    FILE NAME: ICOM-508Q BODY BP-296 156.025MHZ.DA52:0 ..... 7

    FILE NAME: ICOM-508Q BODY BP-296 161.425MHZ.DA52:0 ..... 8

## EXHIBIT 1. HEAD SAR MEASUREMENTS

### *Head SAR Measurement Summary*

| Antenna  | Power (dBm) | CH  | CH. Freq | HEAD SAR1g (W/Kg) | HEAD SAR10g (W/Kg) |
|----------|-------------|-----|----------|-------------------|--------------------|
|          |             |     |          | BP-296            | BP-296             |
|          |             |     | (MHz)    | 2350mAh           | 2350mAh            |
| FA-SC59V | 37.33       | 01A | 156.05   | 0.877             | 0.677              |
|          | 37.27       | 88  | 157.425  | **                | **                 |
|          | 37.36       | P4  | 161.425  | 1.38              | 1.06               |

FILE NAME: ICOM-508Q HEAD BP-296 161.425MHZ.DA52:0

DUT: IC-M37; Type: VHF Transceiver ; Serial: 00000051

Communication System: UID 0, CW (0); Frequency: 161.425 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 162$  MHz;  $\sigma = 0.771$  S/m;  $\epsilon_r = 50.648$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section:  
Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.71, 10.71, 10.71); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- 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-M37/Head Front, P=6W, d=25mm/Area Scan (61x151x1):**

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

Maximum value of SAR (interpolated) = 1.86 W/kg

**Configuration\_Head\_IC-M37/Head Front, P=6W, d=25mm/Zoom Scan (5x5x7)**

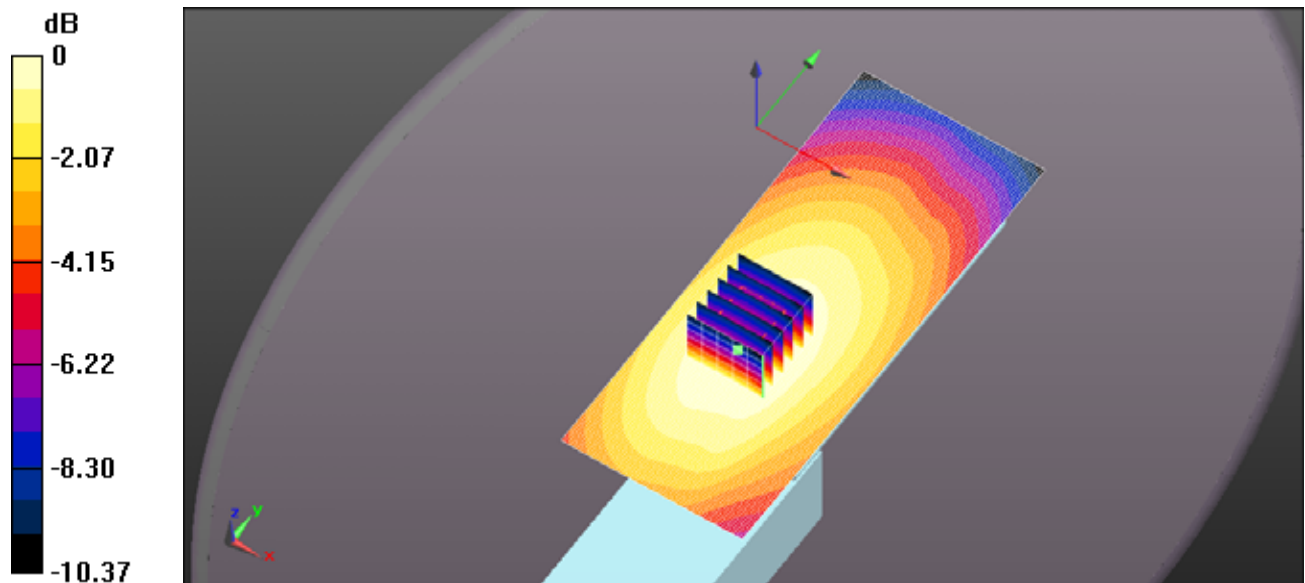
**(6x6x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 53.57 V/m; Power Drift = -1.58 dB

Peak SAR (extrapolated) = 2.04 W/kg

**SAR(1 g) = 1.38 W/kg; SAR(10 g) = 1.06 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.75 W/kg



0 dB = 1.86 W/kg = 2.69 dBW/kg

FILE NAME: ICOM-508Q HEAD BP-296 156.050MHZ.DA52:0

DUT: IC-M37; Type: VHF Transciever ; Serial: 00000051

Communication System: UID 0, CW (0); Frequency: 156.05 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 156.05$  MHz;  $\sigma = 0.767$  S/m;  $\epsilon_r = 51.292$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.71, 10.71, 10.71); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- 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-M37/Head Front, P=6W, d=25mm/Area Scan (61x151x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 1.14 W/kg

**Configuration\_Head\_IC-M37/Head Front, P=6W, d=25mm/Zoom Scan (5x5x7)**

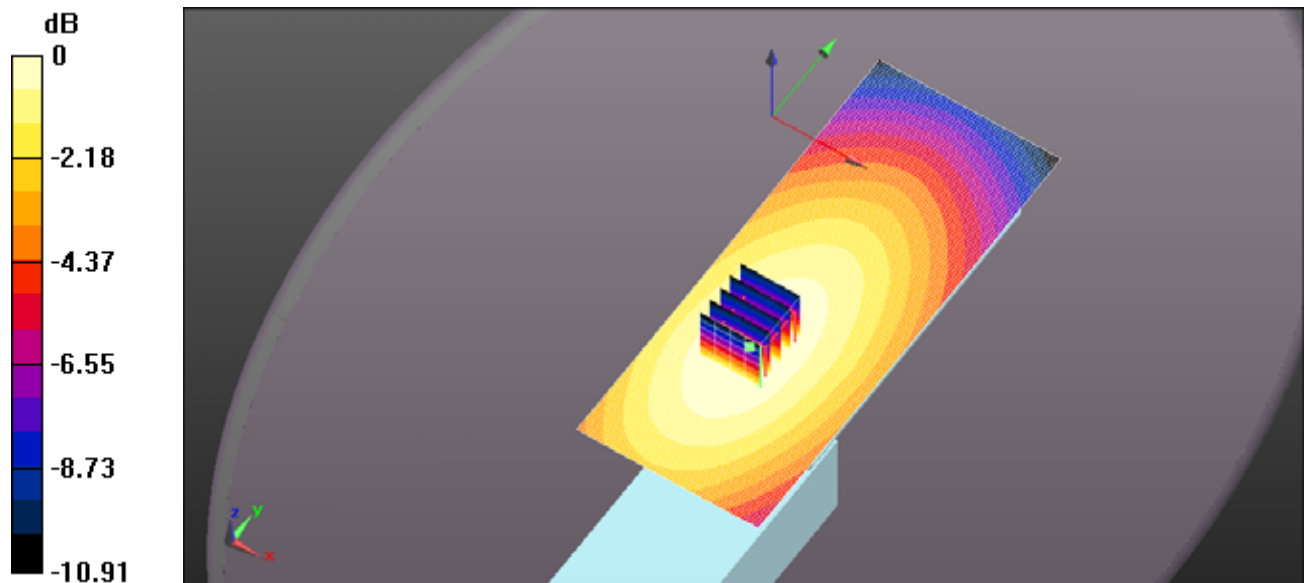
**(5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.02 V/m; Power Drift = -0.69 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.877 W/kg; SAR(10 g) = 0.677 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.14 W/kg = 0.58 dBW/kg

## EXHIBIT 2. BODY SAR MEASUREMENTS

### *Body SAR Measurements Summary*

| Antenna  | Power (dBm) | CH  | CH. Freq | Body SAR1g (W/Kg) | Body SAR10g (W/Kg) |
|----------|-------------|-----|----------|-------------------|--------------------|
|          |             |     |          | MB-133            | MB-133             |
|          |             |     | (MHz)    | BP-296            | BP-296             |
| FA-SC59V | 37.33       | 01A | 156.05   | 1.02              | 0.789              |
|          | 37.27       | 88  | 157.425  | **                | **                 |
|          | 37.36       | P4  | 161.425  | 0.608             | 0.467              |

FILE NAME: ICOM-508Q BODY BP-296 156.025MHZ.DA52:0

DUT: IC-M37; Type: Marine Transceiver ; Serial: 00000051

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

Medium parameters used (interpolated):  $f = 156.05$  MHz;  $\sigma = 0.774$  S/m;  $\epsilon_r = 60.942$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

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

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.55, 10.55, 10.55); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- 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 (61x181x1):**

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

Maximum value of SAR (interpolated) = 1.39 W/kg

**Configuration\_Body\_IC-M37/Front to Face, P=6W, d=0mm/Zoom Scan (5x5x7)**

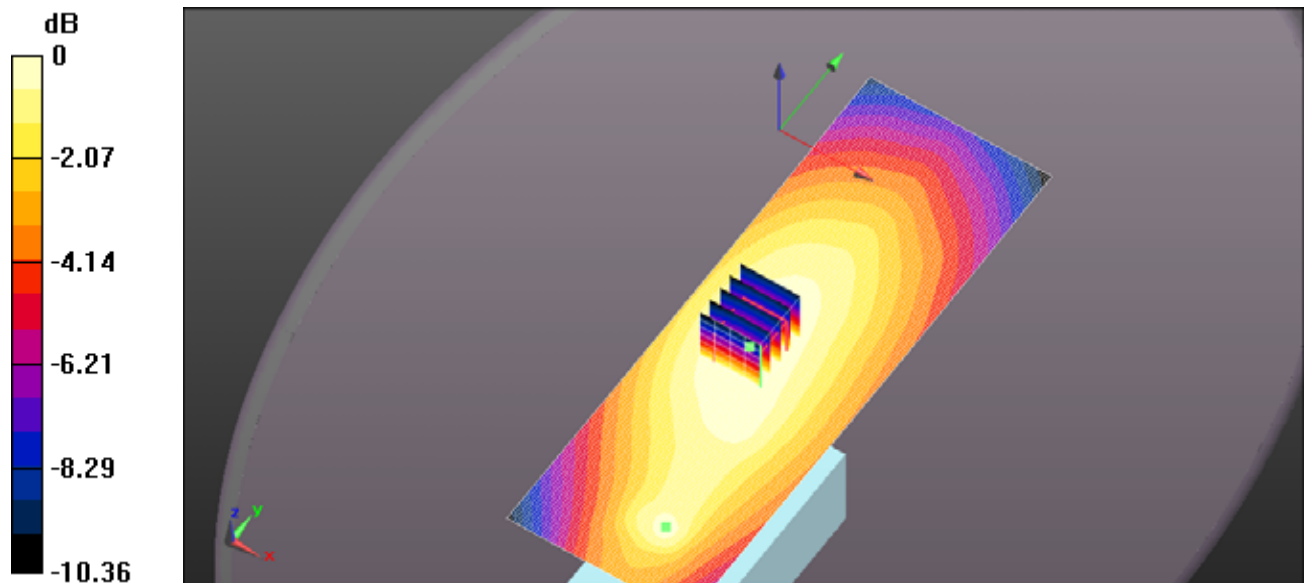
**(5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.96 V/m; Power Drift = -1.47 dB

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.789 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.39 W/kg = 1.42 dBW/kg

FILE NAME: ICOM-508Q BODY BP-296 161.425MHZ.DA52:0

DUT: IC-M37; Type: Marine Transceiver ; Serial: 00000051

Communication System: UID 0, CW; Frequency: 161.425 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 162 \text{ MHz}$ ;  $\sigma = 0.776 \text{ S/m}$ ;  $\epsilon_r = 60.54$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section:  
Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.55, 10.55, 10.55); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- 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 (61x181x1):**

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

Maximum value of SAR (interpolated) =  $0.789 \text{ W/kg}$

**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 =  $29.90 \text{ V/m}$ ; Power Drift =  $-0.18 \text{ dB}$

Peak SAR (extrapolated) =  $0.893 \text{ W/kg}$

**SAR(1 g) =  $0.608 \text{ W/kg}$ ; SAR(10 g) =  $0.467 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $0.772 \text{ W/kg}$

