

APPENDIX 1

SAR Measurement Data

Contents

EXHIBIT 1. HEAD SAR MEASUREMENTS.....	3
<i>Head SAR Measurement Summary</i>	<i>3</i>
FILE NAME: ICOM-546Q HEAD FA-SC28V 151.82 MHz.DA52:0	4
FILE NAME: ICOM-546Q HEAD FA-SC28V 154.60 MHz.DA52:0	5
EXHIBIT 2. BODY SAR MEASUREMENTS.....	6
<i>Body SAR Measurements Summary</i>	<i>6</i>
FILE NAME: ICOM-546Q BODY MB124 HM-159LA FA-SC28V 151.82 MHz.DA52:0	7
FILE NAME: ICOM-546Q BODY MB124 HM-159LA FA-SC28V 154.60 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-298	BP-298	
			(MHz)	2250mAh	2250mAh	
FA-SC28V	1.86	1	151.82	0.564	0.427	-0.38
	1.89	4	154.57	**	**	**
	1.90	5	154.6	0.472	0.357	-0.84

** SAR Test Reduction Applied For PTT Radio

FILE NAME: ICOM-546Q HEAD FA-SC28V 151.82 MHZ.DA52:0

DUT: IC-V3MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 151.82 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 152$ MHz; $\sigma = 0.772$ S/m; $\epsilon_r = 51.768$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.68, 7.68, 7.68); Calibrated: 4/19/2021;
- 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-V3MR/Head Front, P=2W, d=25mm/Area Scan (51x171x1):

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

Maximum value of SAR (interpolated) = 0.628 W/kg

Configuration_Head_IC-V3MR/Head Front, P=2W, d=25mm/Zoom Scan (5x5x7)

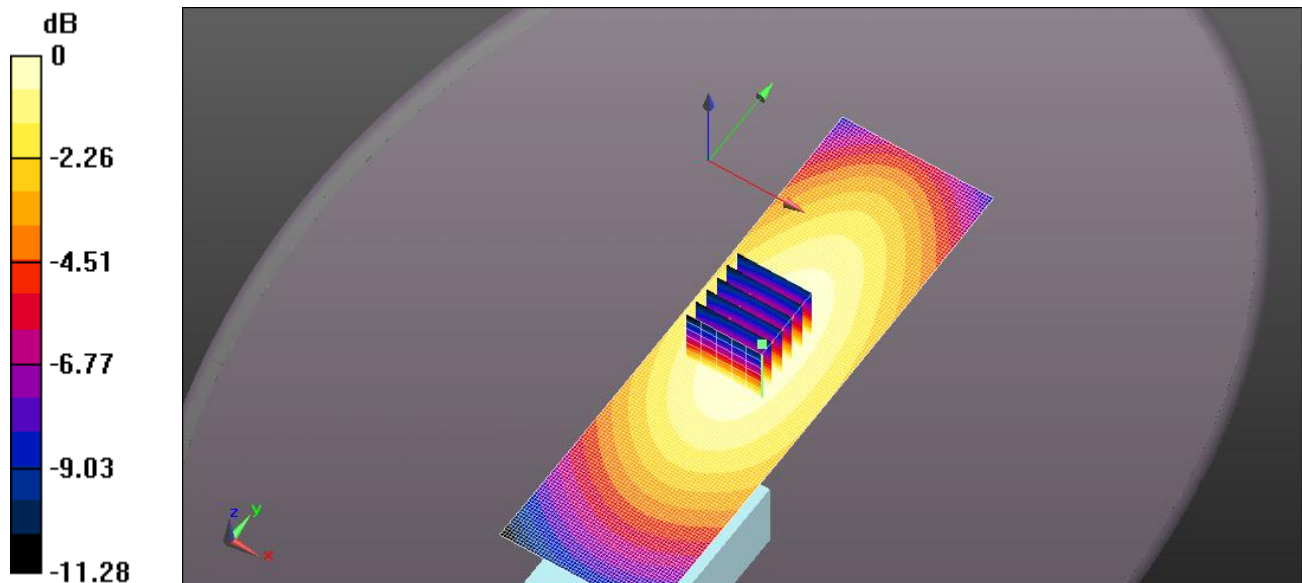
(6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.68 V/m; Power Drift = -0.38 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.564 W/kg; SAR(10 g) = 0.427 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.629 W/kg



0 dB = 0.628 W/kg = -2.02 dBW/kg

FILE NAME: ICOM-546Q HEAD FA-SC28V 154.60 MHZ.DA52:0

DUT: IC-V3MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 154.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 154.6$ MHz; $\sigma = 0.774$ S/m; $\epsilon_r = 51.688$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.68, 7.68, 7.68); Calibrated: 4/19/2021;
- 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-V3MR/Head Front, P=2W, d=25mm/Area Scan (51x171x1):

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

Maximum value of SAR (interpolated) = 0.531 W/kg

Configuration_Head_IC-V3MR/Head Front, P=2W, d=25mm/Zoom Scan (5x5x7)

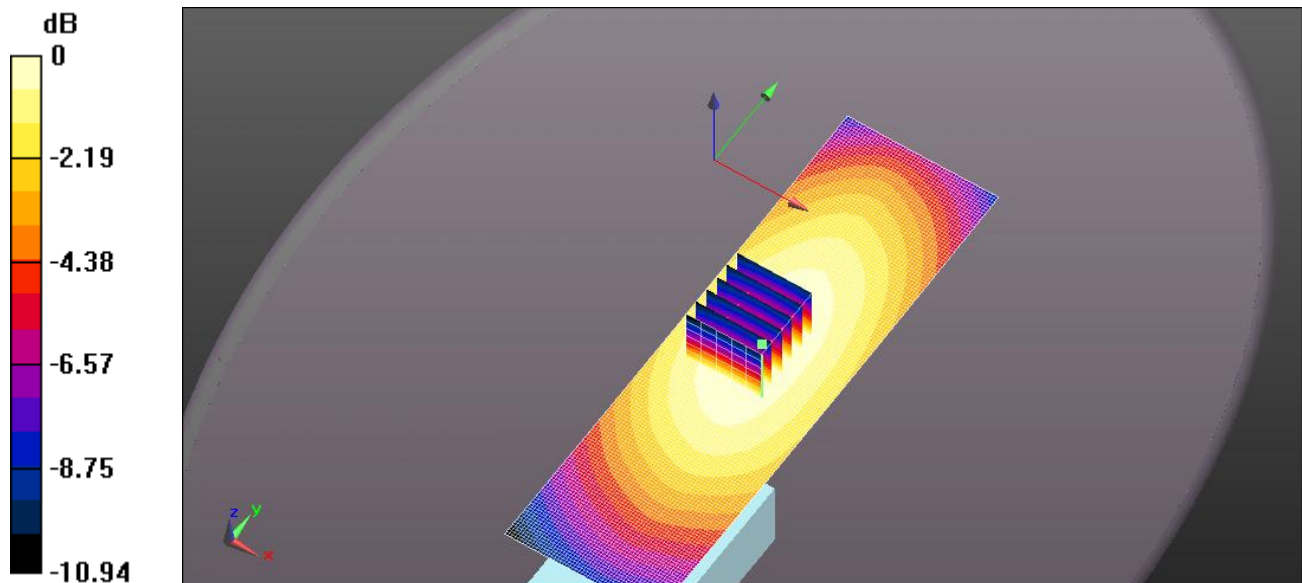
(6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.75 V/m; Power Drift = -0.84 dB

Peak SAR (extrapolated) = 0.685 W/kg

SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.357 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.527 W/kg



0 dB = 0.531 W/kg = -2.75 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)
				BP-298,2250mAh	BP-298,2250mAh	
			(MHz)	MB-124 & HM-159LA	MB-124 & HM-159LA	
FA-SC28V	1.86	1	151.82	0.741	0.51	0.03
	1.89	4	154.57	**	**	**
	1.90	5	154.6	0.429	0.301	-0.2

** SAR Test Reduction Applied For PTT Radio

FILE NAME: ICOM-546Q BODY MB124 HM-159LA FA-SC28V 151.82 MHZ.DA52:0

DUT: IC-V3MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW; Frequency: 151.82 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 152$ MHz; $\sigma = 0.775$ S/m; $\epsilon_r = 60.5$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.52, 7.52, 7.52); Calibrated: 4/19/2021;
- 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-V3MR/Front to Face, P=2W, d=0mm/Area Scan (51x171x1):

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

Maximum value of SAR (interpolated) = 0.847 W/kg

Configuration_Body_IC-V3MR/Front to Face, P=2W, d=0mm/Zoom Scan (5x5x7)

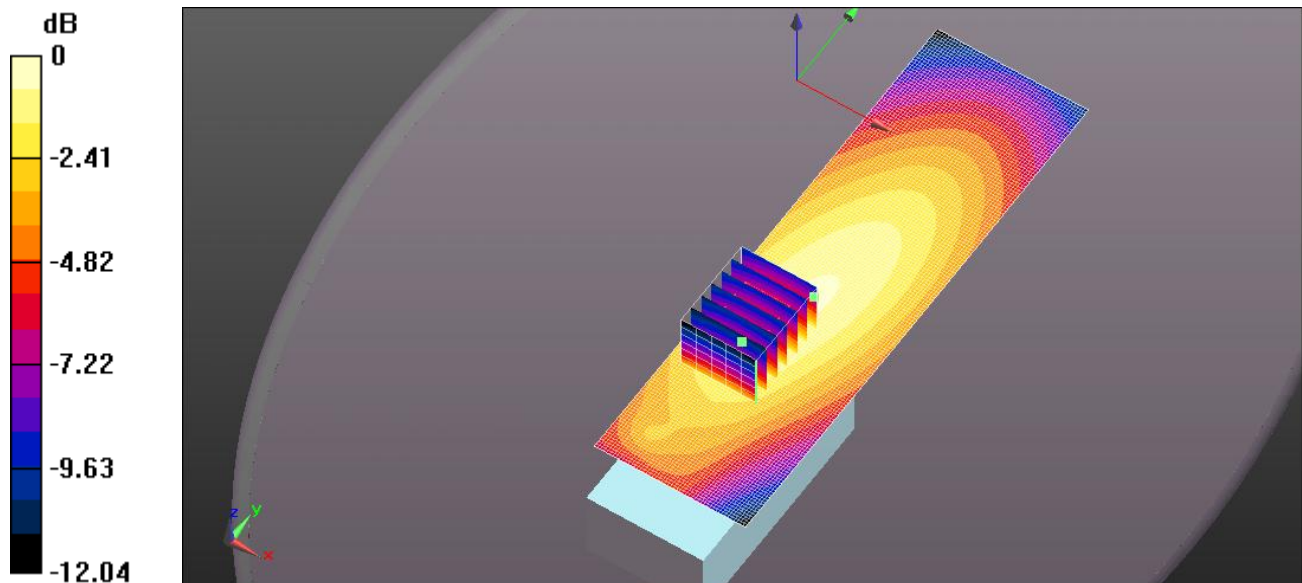
(6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 30.32 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.510 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.867 W/kg



0 dB = 0.847 W/kg = -0.72 dBW/kg

FILE NAME: ICOM-546Q BODY MB124 HM-159LA FA-SC28V 154.60 MHZ.DA52:0

DUT: IC-V3MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW; Frequency: 154.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 154.6$ MHz; $\sigma = 0.777$ S/m; $\epsilon_r = 60.367$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.52, 7.52, 7.52); Calibrated: 4/19/2021;
- 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-V3MR/Front to Face, P=2W, d=0mm/Area Scan (51x171x1):

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

Maximum value of SAR (interpolated) = 0.485 W/kg

Configuration_Body_IC-V3MR/Front to Face, P=2W, d=0mm/Zoom Scan (5x5x7)

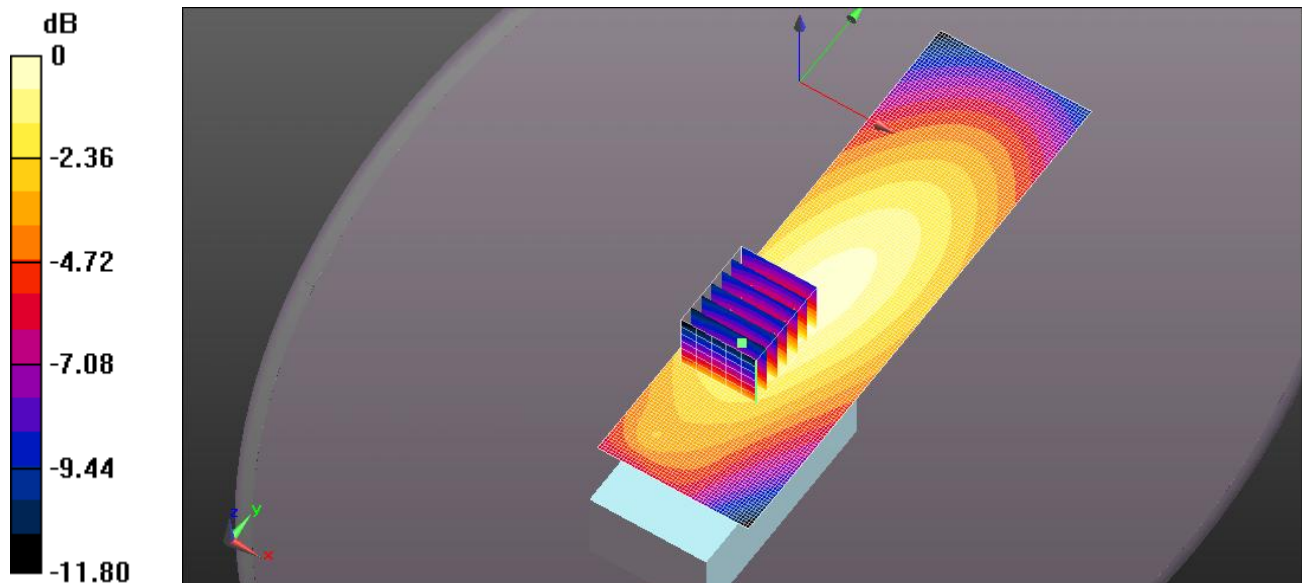
(6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.18 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.301 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.505 W/kg



0 dB = 0.485 W/kg = -3.15 dBW/kg