

APPENDIX 1

SAR Measurement Data

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 FILE NAME: ICOM-580QR1 FA-S100U MB-133 BP-283 769.05MHZ.DA52:0 4

EXHIBIT 1. BODY SAR MEASUREMENTS

Body SAR Measurement Summary

Antenna	Power (W)	C H	CH. Freq	BODY SAR1g (W/Kg)	BODY SAR10g (W/Kg)	Power Drift (dB)
				BP-283,2010mAh	BP-283,2010mAh	
			(MHz)	MB-133& HM-222	MB-133& HM-222	
FA-S100U 700/800MHz 150mm	2.65	1	769.05	6.49	4.82	-0.49

FILE NAME: [ICOM-580QR1 FA-S100U MB-133 BP-283 769.05MHZ.DA52:0](#)

DUT: IC-F7040T; Type: UHF Digital Transceiver; Serial: 41000205

Communication System: UID 0, CW (0); Frequency: 769.05 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 769.05$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 55.844$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(6.12, 6.12, 6.12); Calibrated: 3/18/2022;
- Sensor-Surface: 5mm (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-F7040T/Body_Back, P=3W, d=0mm/Area Scan (71x111x1):

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

Maximum value of SAR (interpolated) = 7.21 W/kg

Configuration_Body_IC-F7040T/Body_Back, P=3W, d=0mm/Zoom Scan (5x5x7)

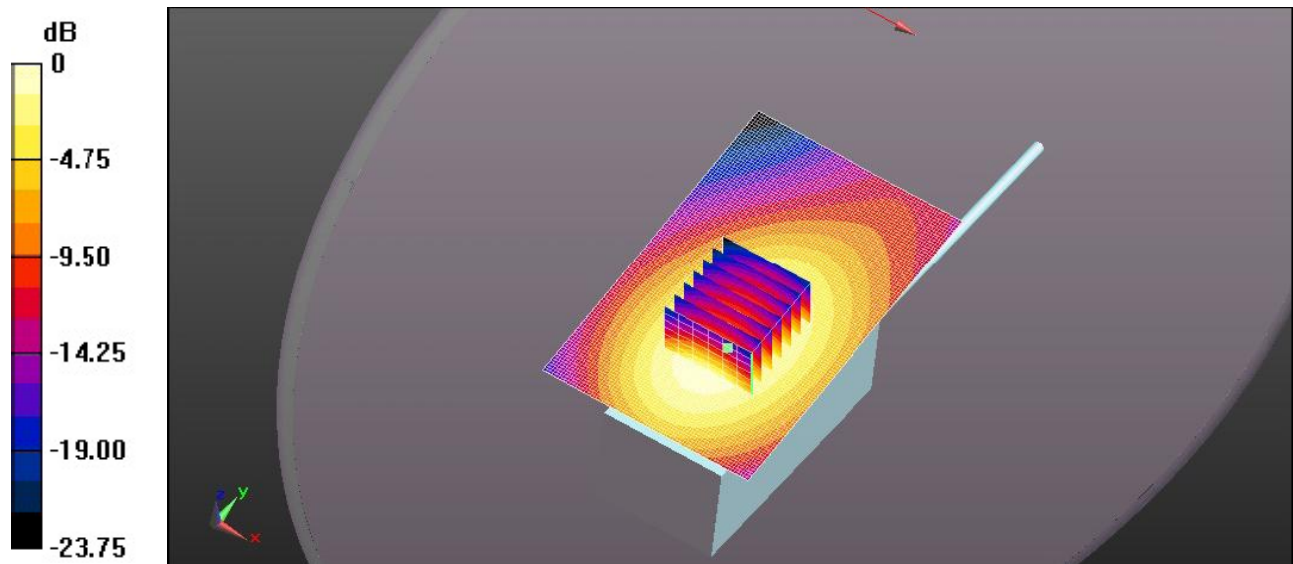
(7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 31.11 V/m; Power Drift = -0.50 dB

Peak SAR (extrapolated) = 8.03 W/kg

SAR(1 g) = 6.49 W/kg; SAR(10 g) = 4.82 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.30 W/kg



0 dB = 7.21 W/kg = 8.58 dBW/kg