

Appendix B – System Check Plots

Date: 2024/7/30

System Check_13MHz

DUT: CLA-13 MHz ;Type: CLA-13 ;SN: 1018

Communication System: UID 10453 - AAD, Validation (Square, 10ms, 1ms); Frequency: 13 MHz;Duty Cycle: 1:10
Medium parameters used (interpolated): $f = 13 \text{ MHz}$; $\sigma = 0.731 \text{ S/m}$; $\epsilon_r = 55.277$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS

DASY5.2 Configuration:

- Area Scan setting - Find Secondary Maximum Within:2.0dB and with a peak SAR value greater than 0.5 W/Kg
- Probe: EX3DV4 - SN7650; ConvF(17.02, 18.46, 16.04) @ 13 MHz; Calibrated: 2024/6/4
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn541; Calibrated: 2024/3/11
- Phantom: ELI; Type: QD OVA 002 AA; Serial: 1175
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (121x121x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$
Maximum value of SAR (interpolated) = 1.19 W/kg

Zoom Scan (7x7x16)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 39.55 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.336 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid ($> 12 \text{ mm}$)

Ratio of SAR at M2 to SAR at M1 = 68.6%

Maximum value of SAR (measured) = 0.993 W/kg

