APPENDIX A: SAR TEST PLOTS

ELEMENT

DUT: BCGA2568; Type: Tablet Device; Serial: QW42KQWP44

Communication System: UID 10917 - AAB, 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz);
Frequency: 3570 MHz;
Medium: 3500-3700 Body; Medium parameters used (interpolated):
f = 3570 MHz; σ = 3.433 S/m; ε_r = 49.395; ρ = 1000 kg/m^3
Phantom section: Flat Section ; Space: 0.0 cm

Test Date: 07/08/2021; Ambient Temp: 24.3ºC; Tissue Temp: 21.9ºC

Probe: EX3DV4 - SN7427; ConvF(5.99, 5.99, 5.99) @ 3570 MHz; Calibrated: 2/17/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/11/2021
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7501)

Mode: NR Band n48, Antenna 1a, Body SAR, Left Edge, 40 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 638000, 50 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=5mm, dy=12mm
Zoom Scan (8x7x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 16.55 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.86 W/kg
SAR(1 g) = 0.740 W/kg; SAR(10 g) = 0.200 W/kg