

APPENDIX A: SAR TEST DATA

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV01BPQLD

Communication System: UID 0, _GSM GPRS; 2 Tx slots; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: 835 Body Medium parameters used (interpolated):

$f = 824.2 \text{ MHz}$; $\sigma = 0.966 \text{ S/m}$; $\epsilon_r = 54.718$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.4°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7427; ConvF(10.18, 10.18, 10.18) @ 824.2 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: GPRS 850, Antenna 1, Body SAR, Left Edge, Low.ch, 2 Tx Slots

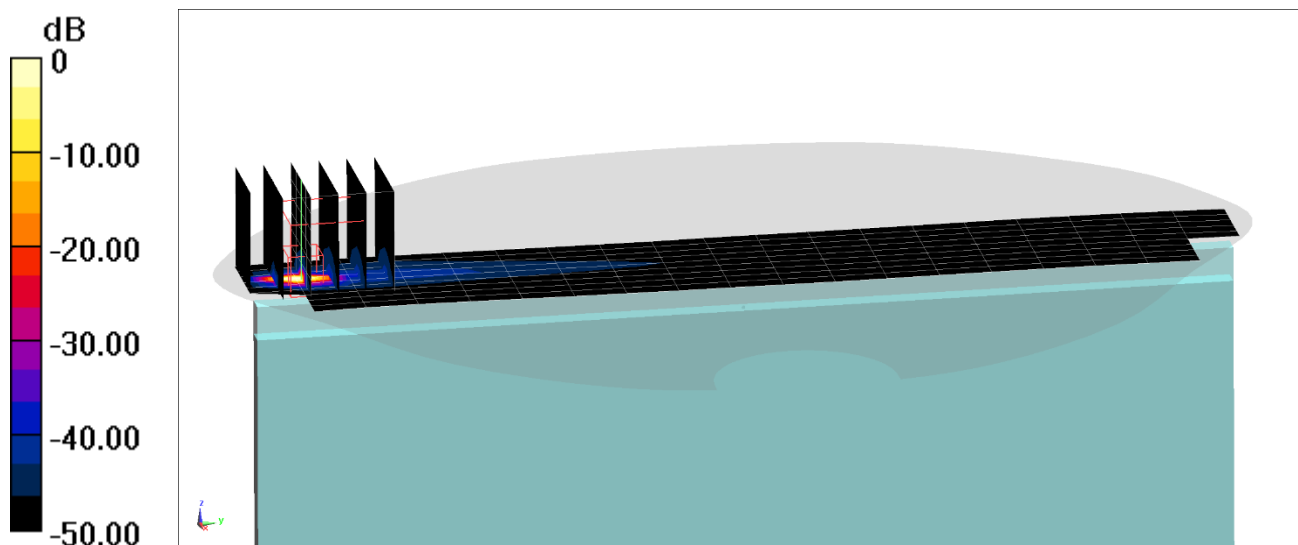
Area Scan (10x22x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.56 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 6.54 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.360 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00BPQLD

Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium: 1900 Body Medium parameters used:

$f = 1910$ MHz; $\sigma = 1.585$ S/m; $\epsilon_r = 52.264$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-20-2020; Ambient Temp: 22.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1909.8 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: GPRS 1900, Antenna 4b, Body SAR, Back side, High.ch, 2 Tx Slots

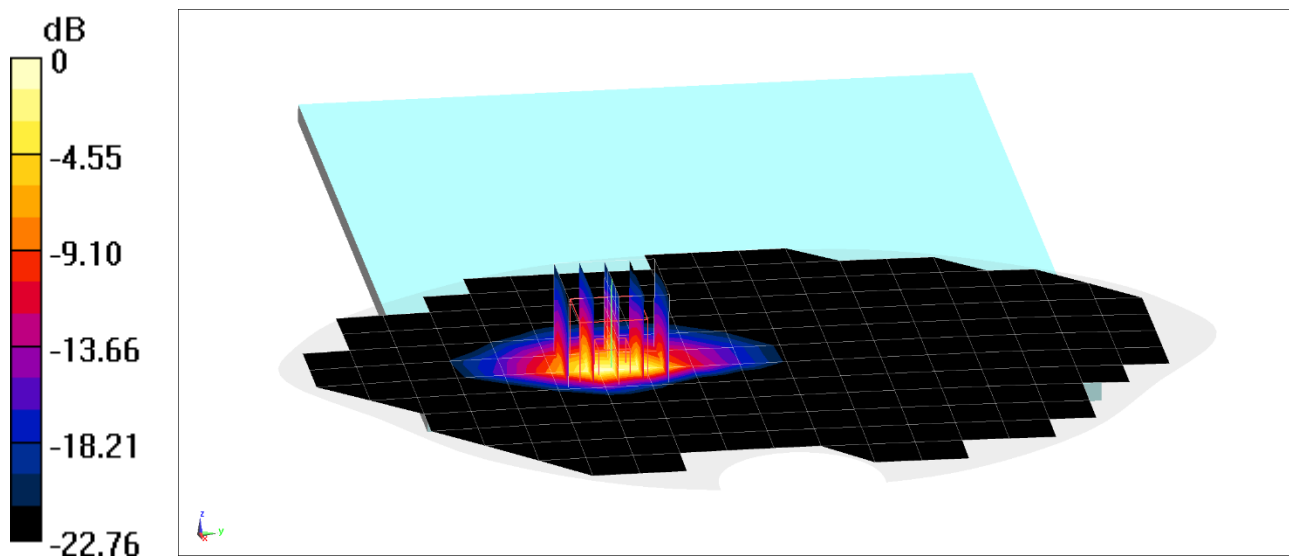
Area Scan (15x19x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.00 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.00 W/kg

SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.385 W/kg



0 dB = 2.02 W/kg = 3.05 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV01BPQLD

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ S/m}$; $\epsilon_r = 54.527$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.4°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7427; ConvF(10.18, 10.18, 10.18) @ 836.6 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: UMTS 850, Antenna 1, Body SAR, Left Edge, Mid.ch

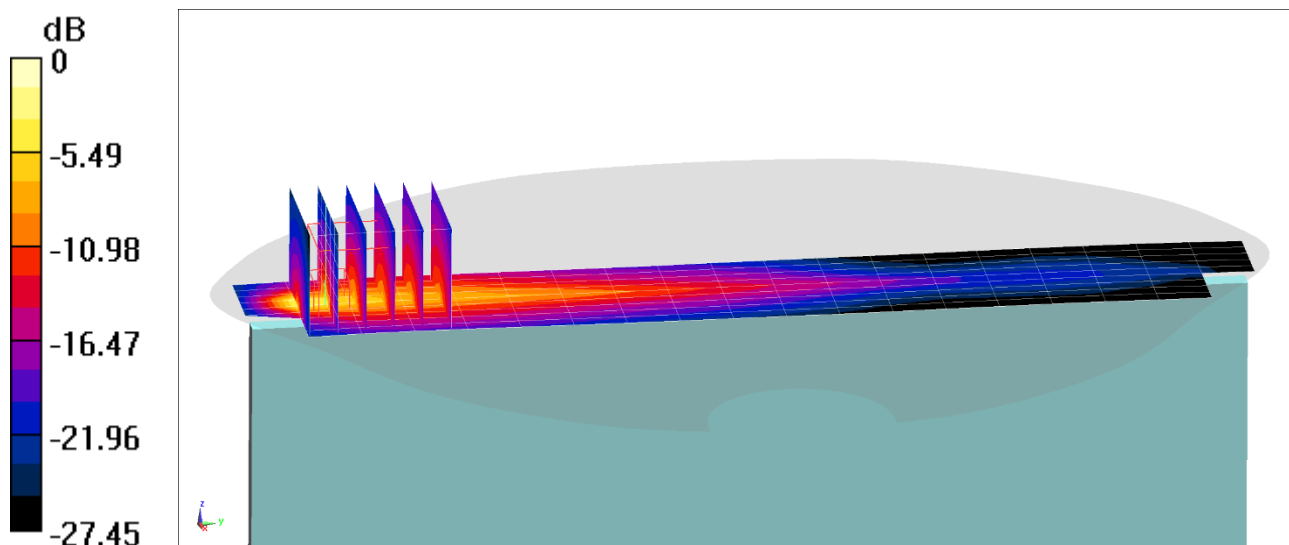
Area Scan (10x22x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 37.64 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 7.29 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.376 W/kg



0 dB = 5.02 W/kg = 7.01 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV01JPQLD

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1732.4 \text{ MHz}$; $\sigma = 1.49 \text{ S/m}$; $\epsilon_r = 51.377$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-28-2020; Ambient Temp: 21.9°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1732.4 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: UMTS 1750, Antenna 2a, Body SAR, Back side, Mid.ch

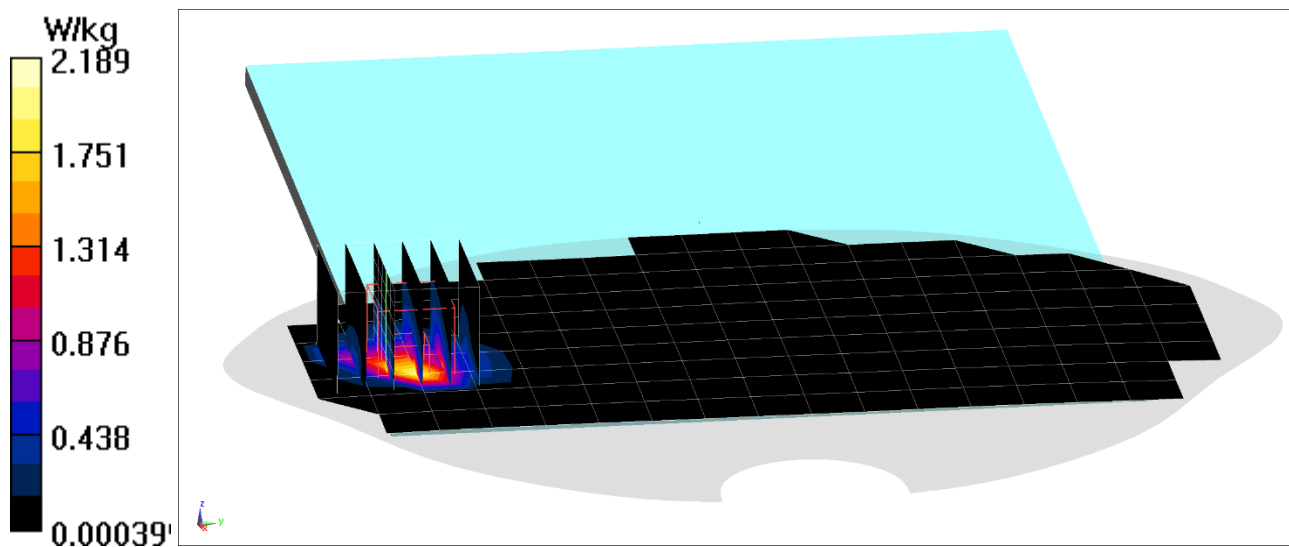
Area Scan (11x18x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.87 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.555 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV01JPQLD

Communication System: UID 0, UMTS; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1852.4 \text{ MHz}$; $\sigma = 1.55 \text{ S/m}$; $\epsilon_r = 51.683$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-22-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1852.4 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: UMTS 1900, Antenna 4a, Body SAR, Back side, Low.ch

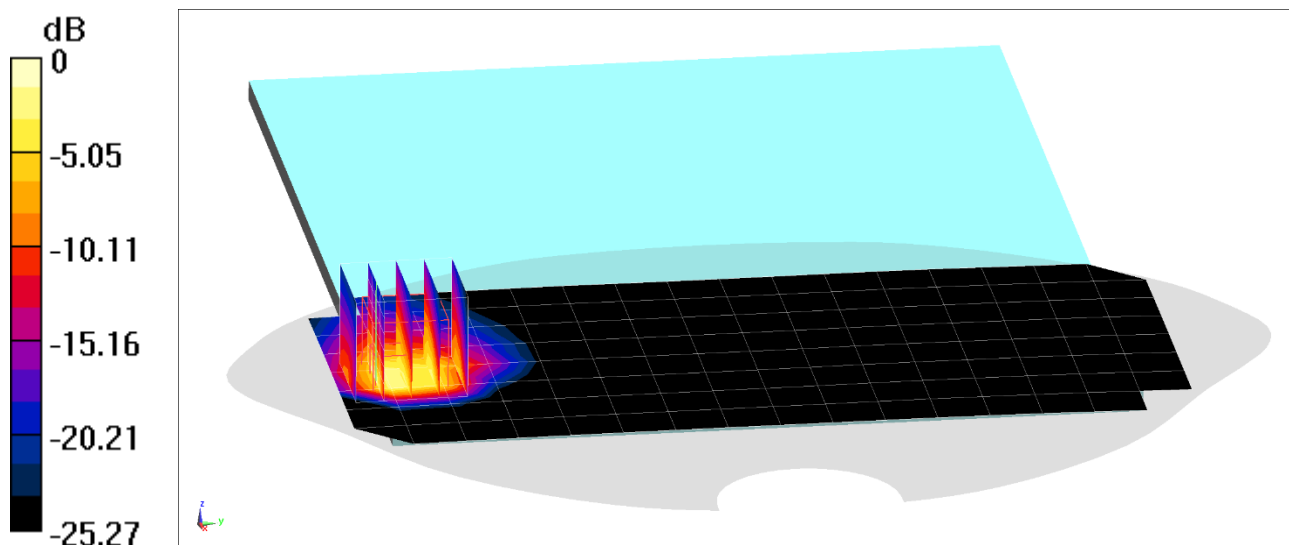
Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.24 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 4.20 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.572 W/kg



0 dB = 2.62 W/kg = 4.18 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00QPQLD

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 680.5$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.421$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 680.5 MHz; Calibrated: 3/18/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 71, Antenna 1, Body SAR, Left Edge, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

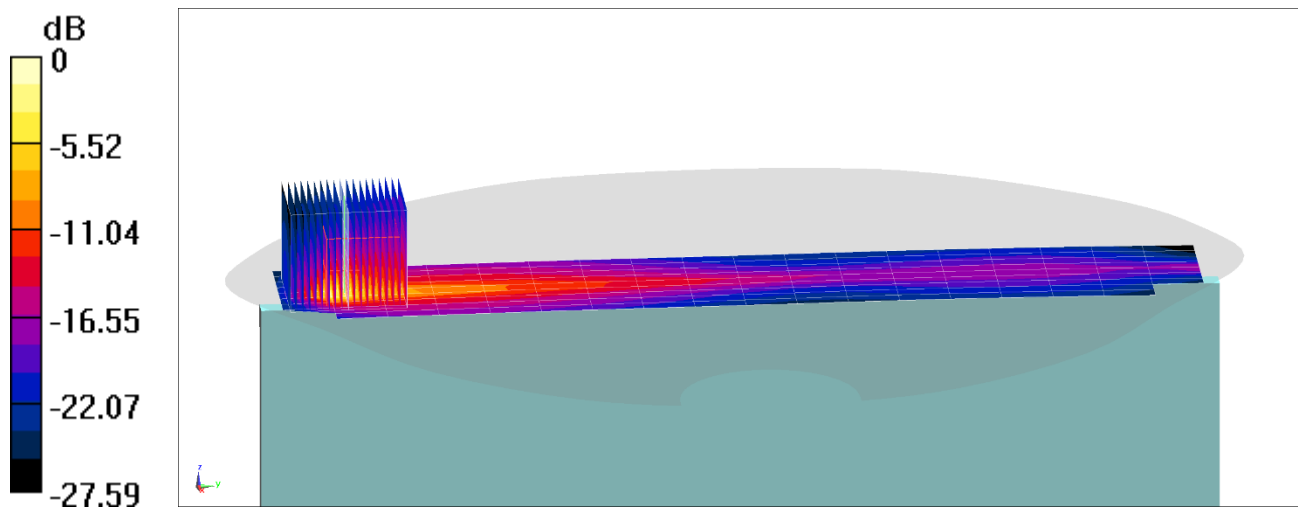
Area Scan (10x21x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (17x19x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 32.08 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 22.7 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.297 W/kg



0 dB = 4.48 W/kg = 6.51 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00BPQLD

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 707.5$ MHz; $\sigma = 0.928$ S/m; $\epsilon_r = 54.629$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 707.5 MHz; Calibrated: 3/18/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 12, Antenna 1, Body SAR, Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

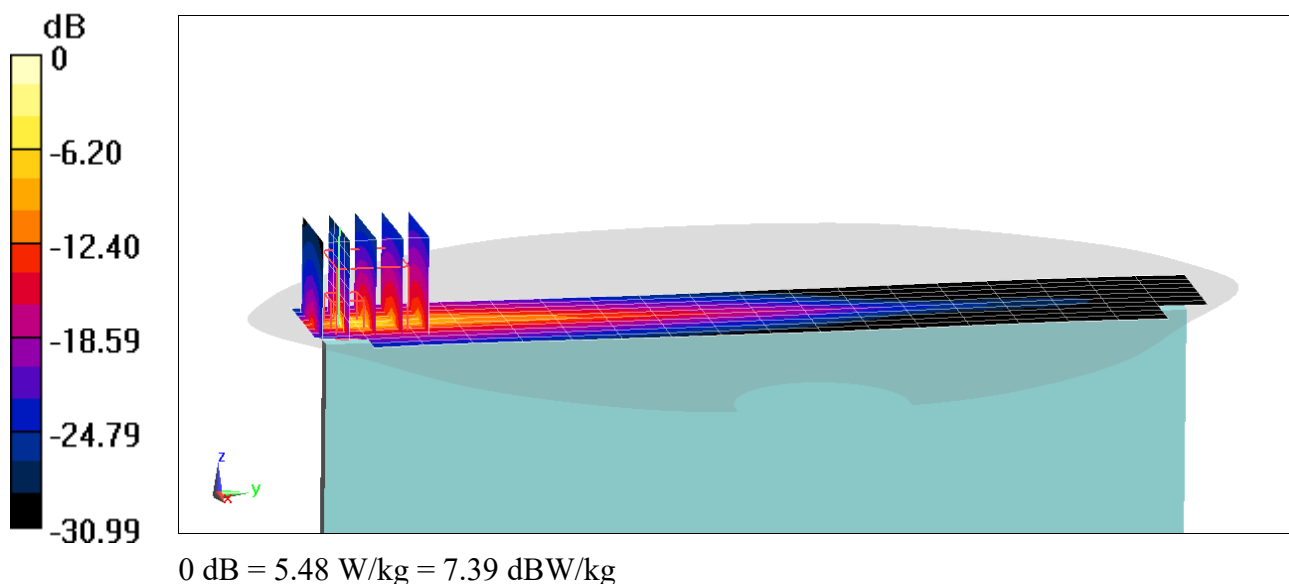
Area Scan (11x7x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.50 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 8.44 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.352 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00JPQLD

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 1.008 \text{ S/m}$; $\epsilon_r = 53.413$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 782 MHz; Calibrated: 3/18/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 13, Antenna 3, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

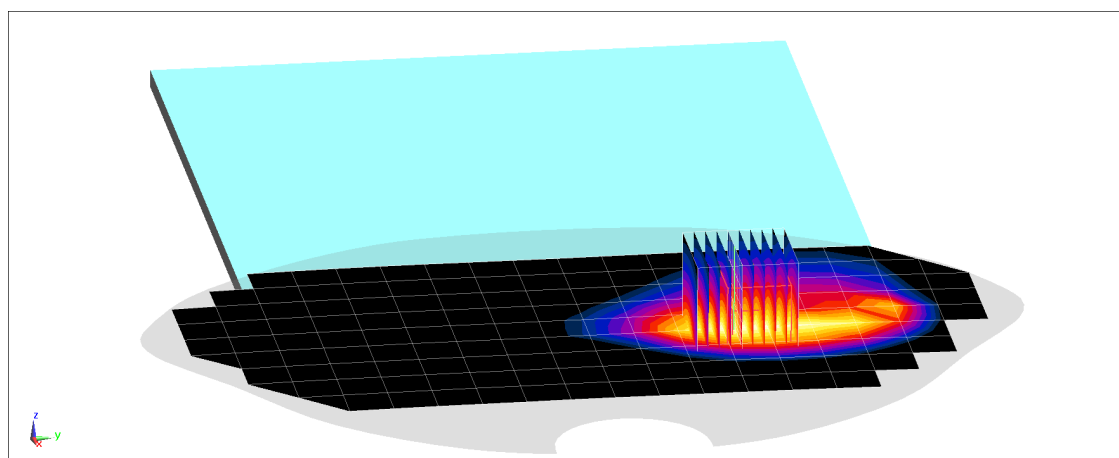
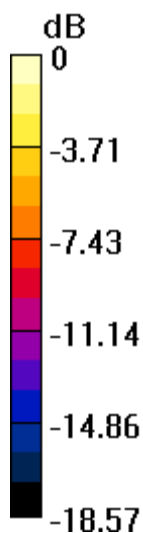
Area Scan (10x19x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (10x10x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 31.07 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.545 W/kg



0 dB = 1.91 W/kg = 2.81 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV01EPQLD

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 1.014 \text{ S/m}$; $\epsilon_r = 53.426$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 793 MHz; Calibrated: 3/18/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 14, Antenna 3, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

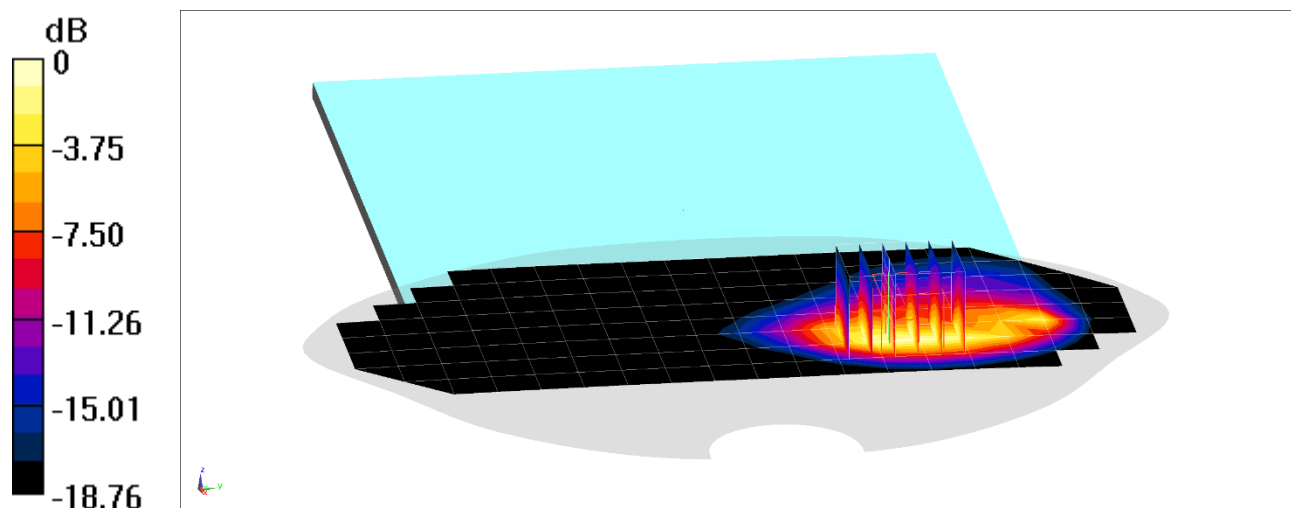
Area Scan (9x21x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.98 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.581 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV007PQLD

Communication System: UID 0, _LTE Band 26; Frequency: 819 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 54.799$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.4°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7427; ConvF(10.18, 10.18, 10.18) @ 819 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 26 (Cell.), Antenna 1, Body SAR, Left Edge, Low.ch,
10 MHz Bandwidth, QPSK, 25 RB, 25 RB Offset**

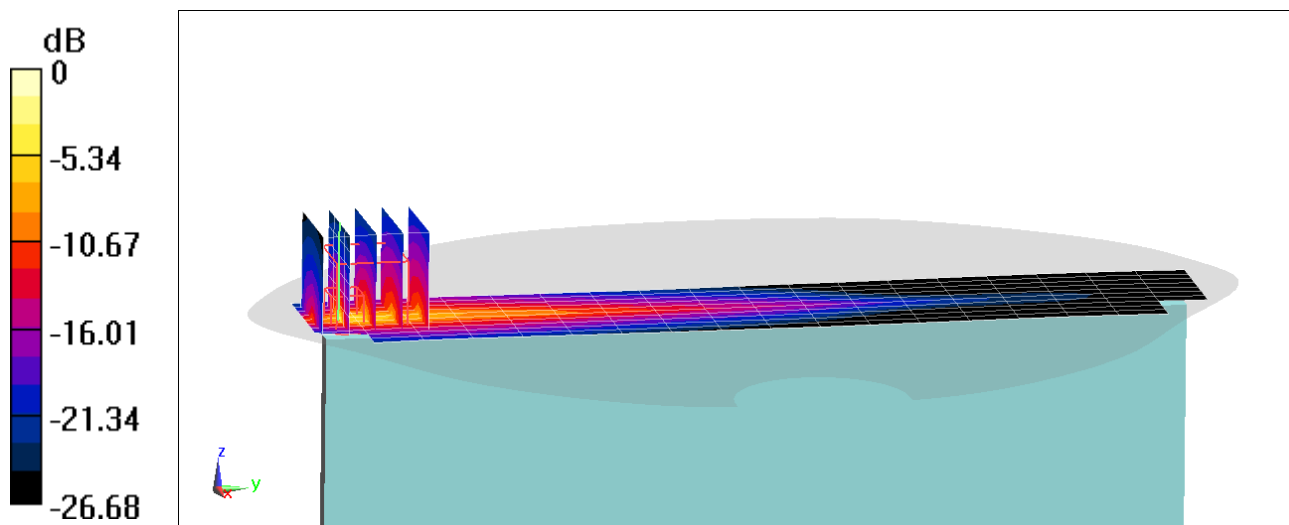
Area Scan (10x21x1): Measurement grid: $dx=5\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 36.53 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 5.19 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.410 W/kg



0 dB = 3.41 W/kg = 5.33 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00RPQLD

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$; $\sigma = 0.98 \text{ S/m}$; $\epsilon_r = 54.528$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.4°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7427; ConvF(10.18, 10.18, 10.18) @ 836.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 5 (Cell.), Antenna 1, Body SAR, Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

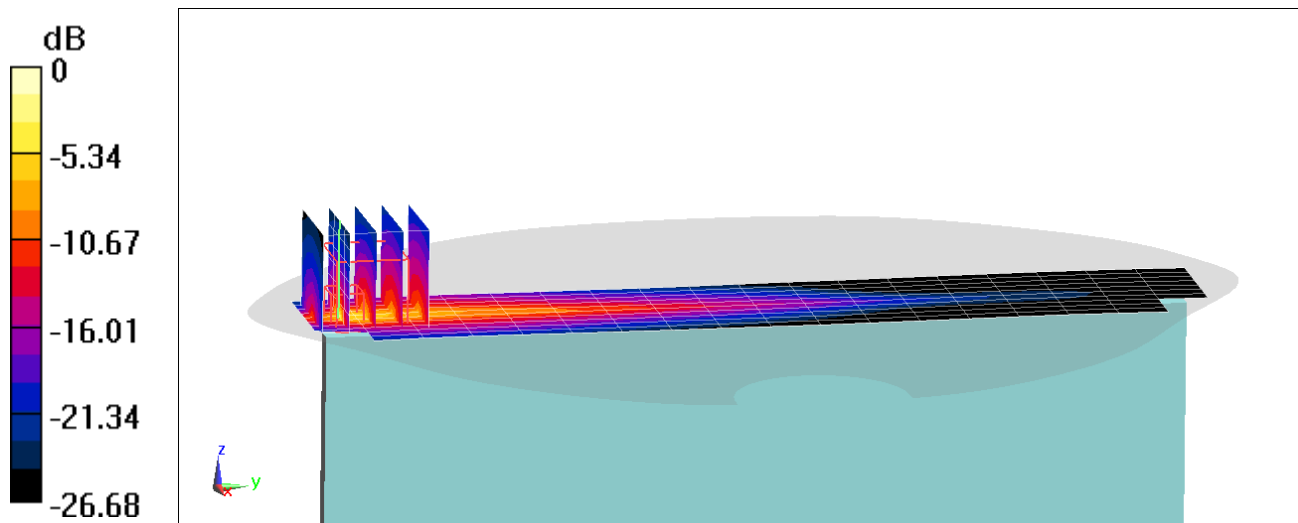
Area Scan (10x21x1): Measurement grid: dx=5mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.71 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 7.39 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.405 W/kg



0 dB = 4.82 W/kg = 6.83 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV011PQLD

Communication System: UID 0, LTE Band 4 (AWS); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1732.5 \text{ MHz}$; $\sigma = 1.5 \text{ S/m}$; $\epsilon_r = 51.345$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-26-2020; Ambient Temp: 19.8°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1732.5 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 4 (AWS), Antenna 4a, Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

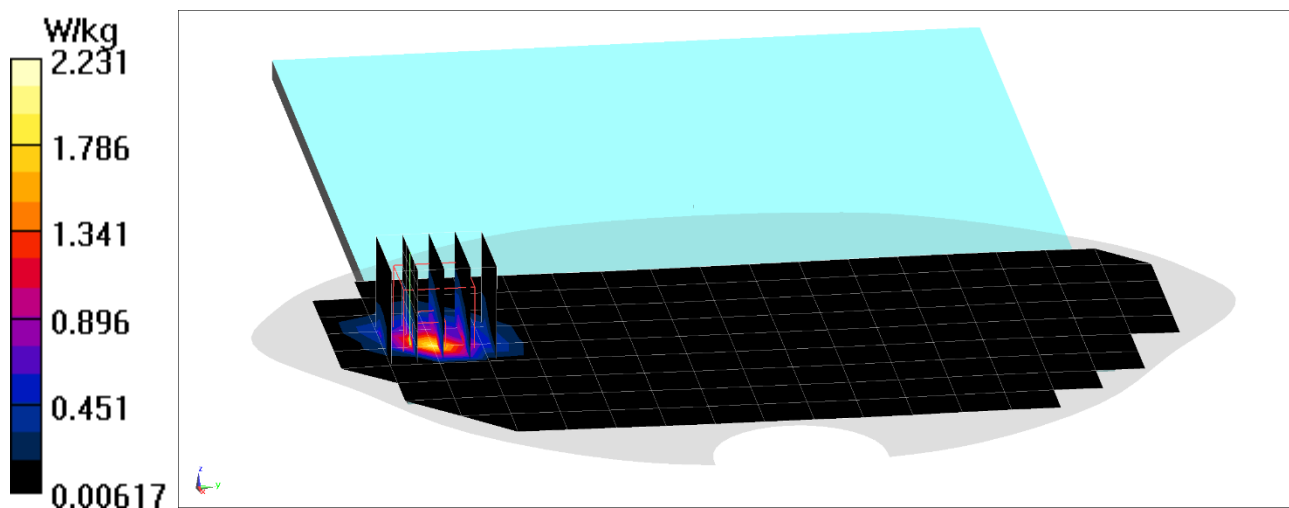
Area Scan (10x18x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.09 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.507 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV011PQLD

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1770 \text{ MHz}$; $\sigma = 1.539 \text{ S/m}$; $\epsilon_r = 51.216$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-26-2020; Ambient Temp: 19.8°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1770 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 66 (AWS), Antenna 4a, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

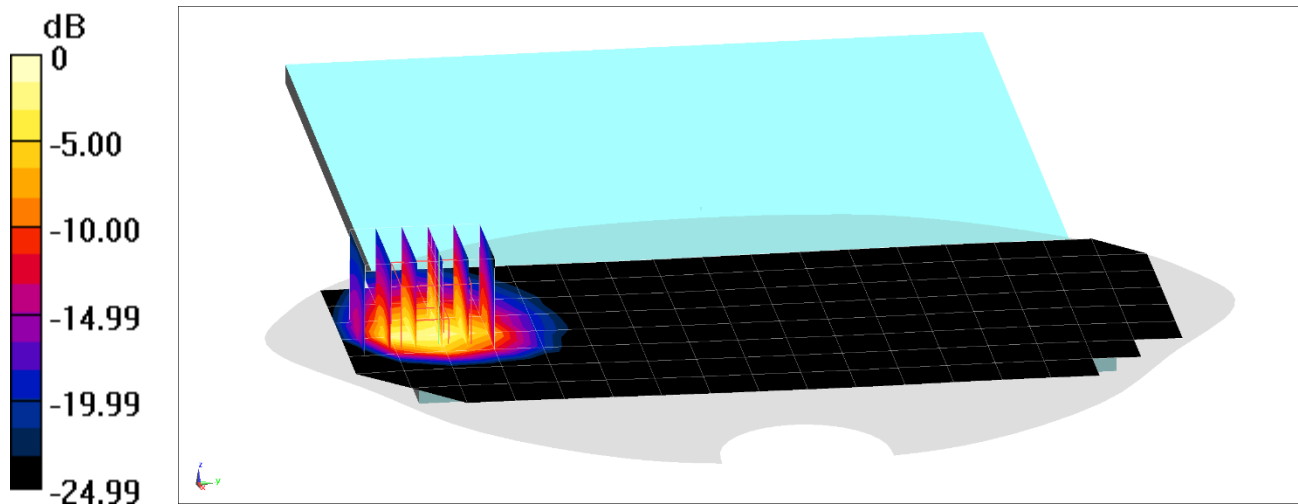
Area Scan (9x18x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.31 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.518 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV0GPQLD

Communication System: UID 0, LTE Band 2 (PCS), Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900$ MHz; $\sigma = 1.578$ S/m; $\epsilon_r = 52.272$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-20-2020; Ambient Temp: 22.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1900 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 2 (PCS), Antenna 4a, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

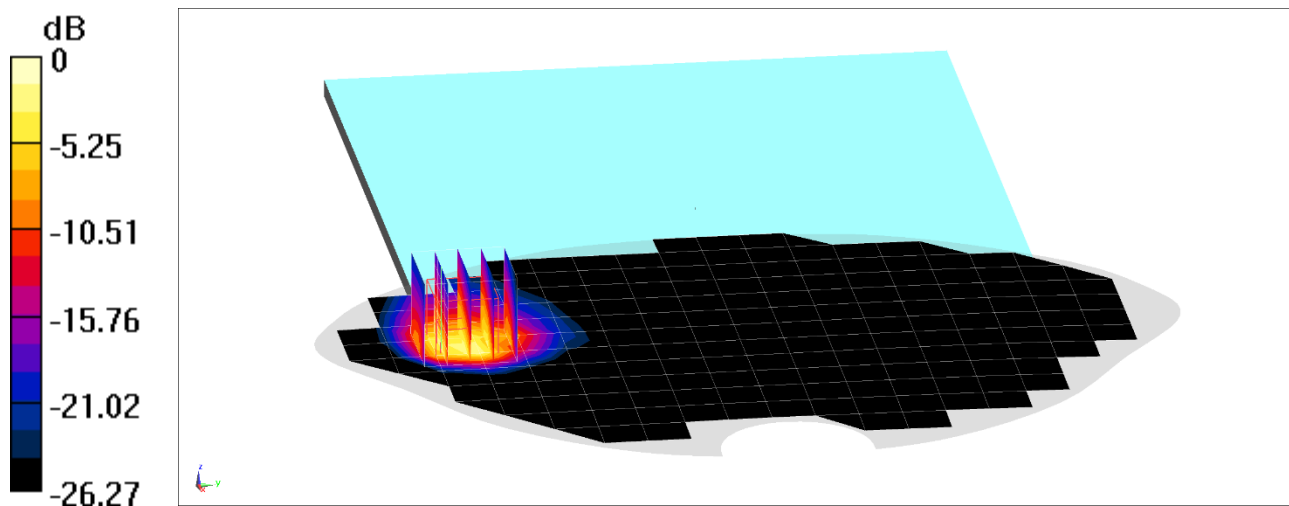
Area Scan (15x19x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.12 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.538 W/kg



0 dB = 2.60 W/kg = 4.15 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV0GPQLD

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1905 \text{ MHz}$; $\sigma = 1.584 \text{ S/m}$; $\epsilon_r = 52.223$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-18-2020; Ambient Temp: 19.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1905 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 25 (PCS), Antenna 4a, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

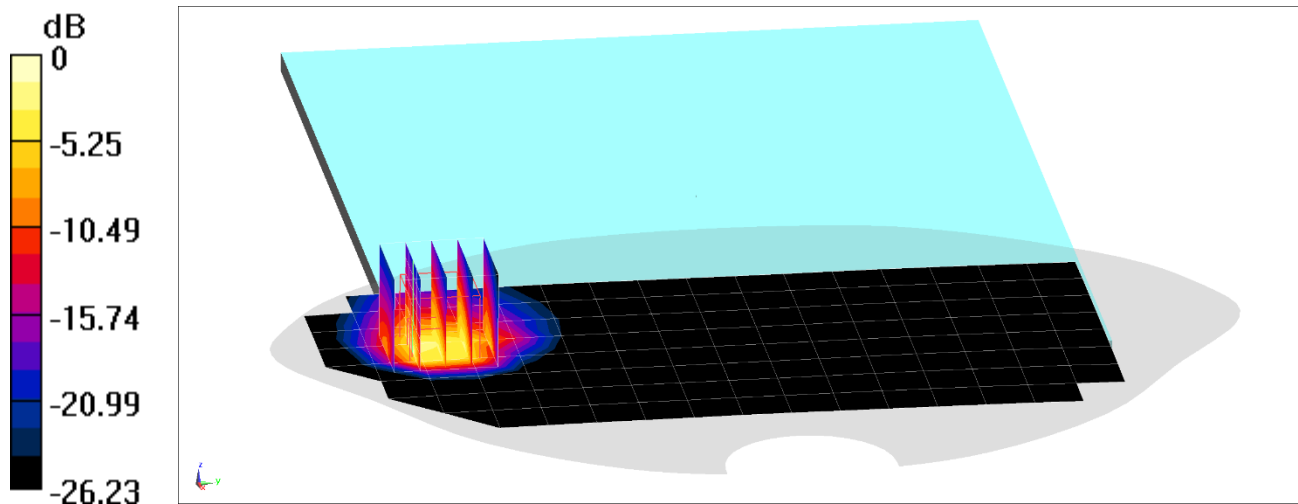
Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.21 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 4.20 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.553 W/kg



0 dB = 2.61 W/kg = 4.17 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV0GPQLD

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2300 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.843 \text{ S/m}$; $\epsilon_r = 52.593$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-26-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7532; ConvF(7.93, 7.93, 7.93) @ 2310 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 30, Antenna 4a, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 25 RB, 0 RB Offset**

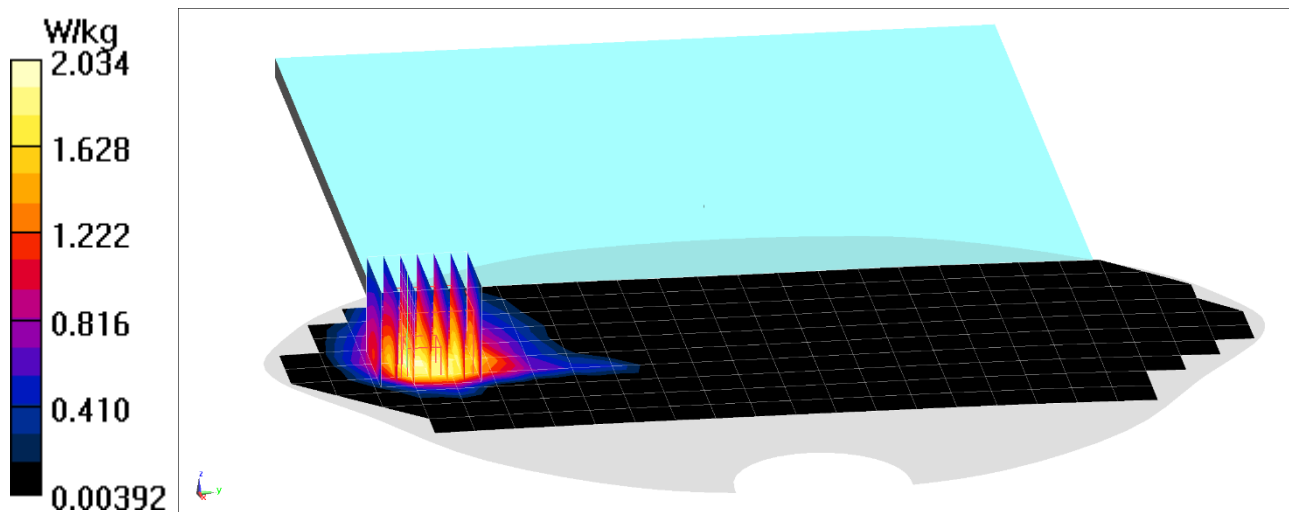
Area Scan (11x11x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 24.93 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.398 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00BPQLD

Communication System: UID 0, LTE Band 7; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2535 \text{ MHz}$; $\sigma = 2.149 \text{ S/m}$; $\epsilon_r = 51.543$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-24-2020; Ambient Temp: 22.5°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7532; ConvF(7.47, 7.47, 7.47) @ 2535 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 7, Antenna 4b, Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

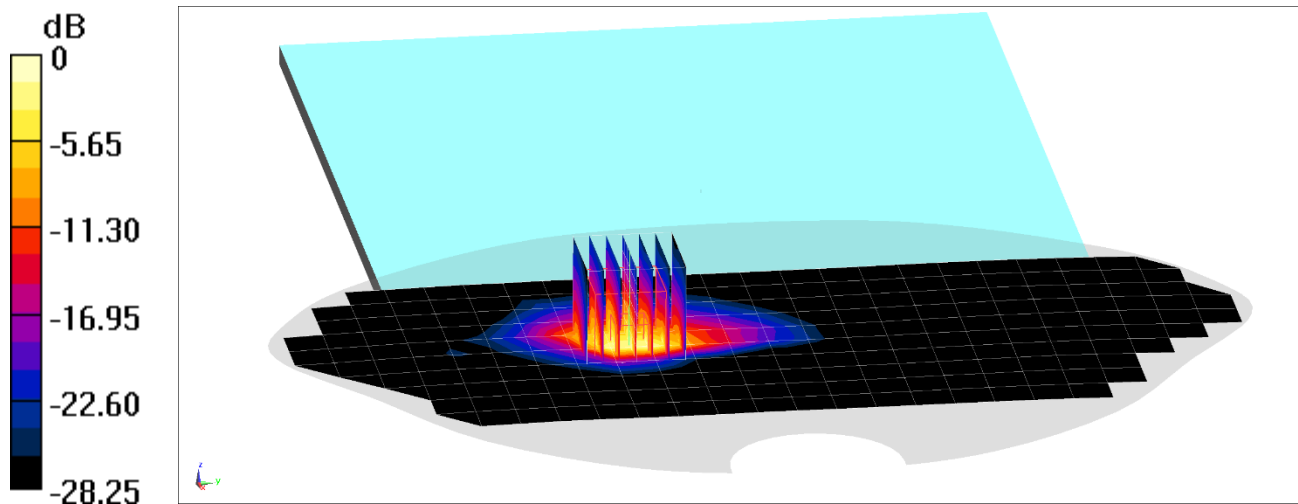
Area Scan (11x25x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.76 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.392 W/kg



0 dB = 2.65 W/kg = 4.23 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00BPQLD

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2506 \text{ MHz}$; $\sigma = 2.085 \text{ S/m}$; $\epsilon_r = 52.875$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-27-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3949; ConvF(7.75, 7.75, 7.75) @ 2506 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 41, Antenna 4b, Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

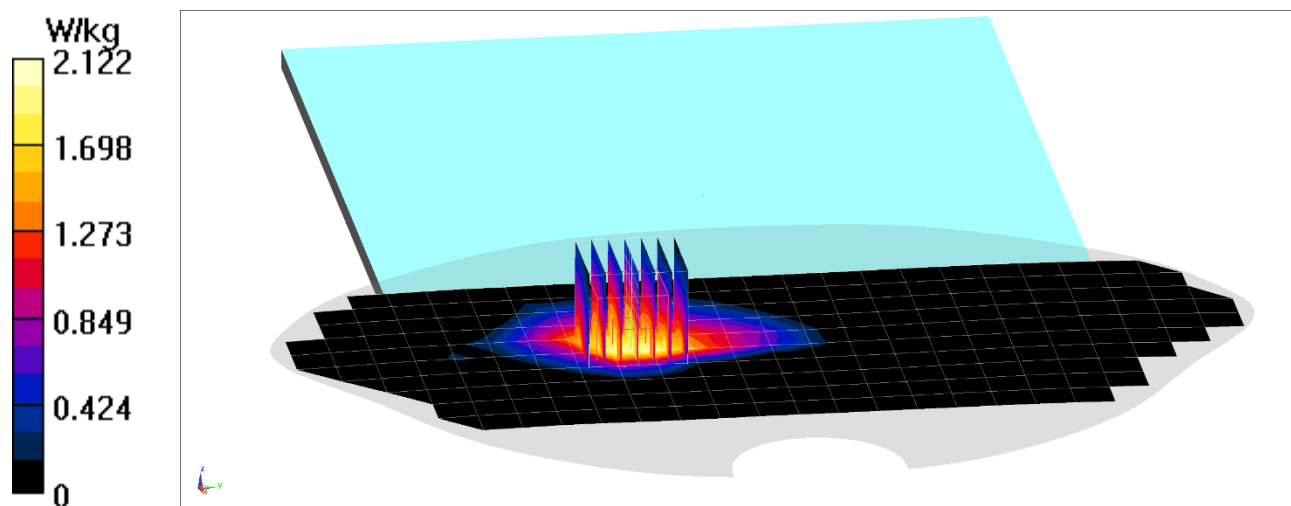
Area Scan (11x25x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 24.32 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.407 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV00QPQLD

Communication System: UID 0, _LTE Band 48; Frequency: 3603.3 MHz; Duty Cycle: 1:1.58

Medium: 3500 - 3700 Body Medium parameters used (interpolated):

$f = 3603.3$ MHz; $\sigma = 3.497$ S/m; $\epsilon_r = 49.265$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-20-2020; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3949; ConvF(6.78, 6.78, 6.78) @ 3603.3 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: LTE Band 48, Antenna 3, Body SAR, Right Edge, Low-Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

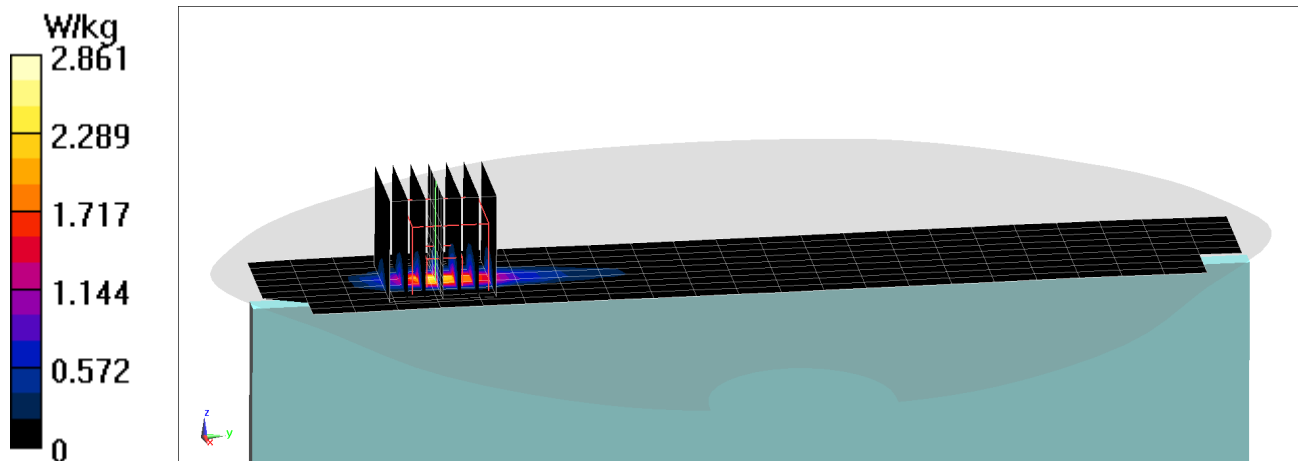
Area Scan (10x26x1): Measurement grid: dx=5mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 20.19 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 4.46 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.309 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZN00LP57T

Communication System: UID 0, IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$; $\sigma = 1.979 \text{ S/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-18-2019; Ambient Temp: 20.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2412 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

**Mode: IEEE 802.11b, Antenna 2A, Variant 1, 22 MHz Bandwidth,
Body SAR, Ch 1, 1 Mbps, Back Side**

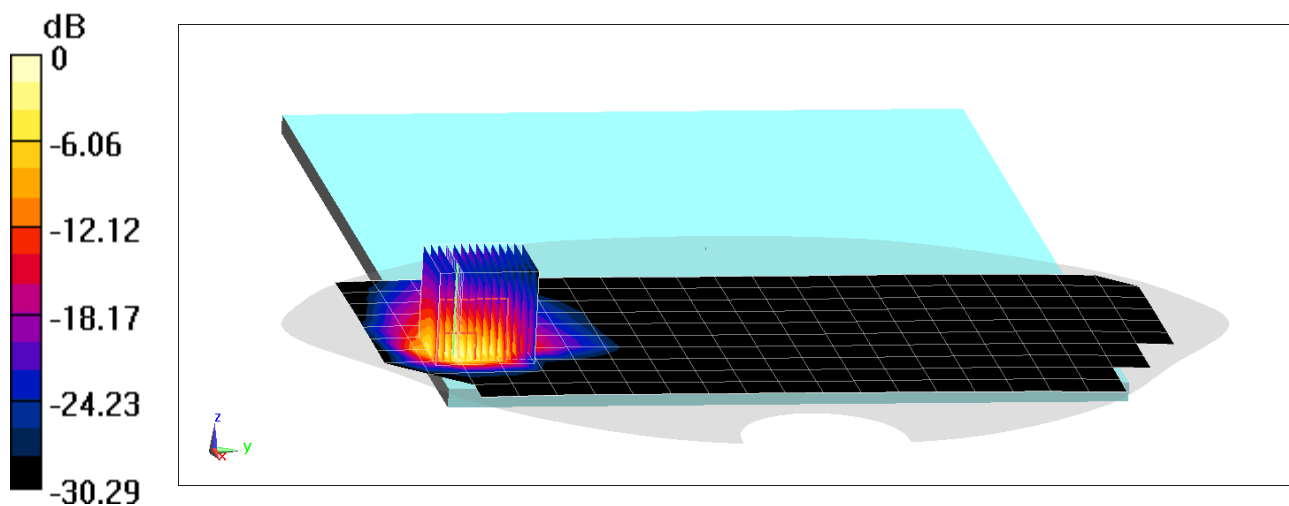
Area Scan (11x22x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (13x14x8)/Cube 0: Measurement grid: $dx=2.4\text{mm}$, $dy=2.4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Reference Value = 20.34 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.74 W/kg

SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.429 W/kg



0 dB = 2.58 W/kg = 4.12 dBW/kg

PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZN00LP57T

Communication System: UID 0, _IEEE 802.11ac; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5GHz Body Medium parameters used (interpolated):

$f = 5775 \text{ MHz}$; $\sigma = 5.935 \text{ S/m}$; $\epsilon_r = 46.573$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-23-2019; Ambient Temp: 21.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7491; ConvF(4.32, 4.32, 4.32) @ 5775 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

**Mode: IEEE 802.11ac, 5 GHz ANTupper, Variant 1, U-NII-3, 80 MHz Bandwidth,
Body SAR, Ch 155, 29.3 Mbps, Right Edge**

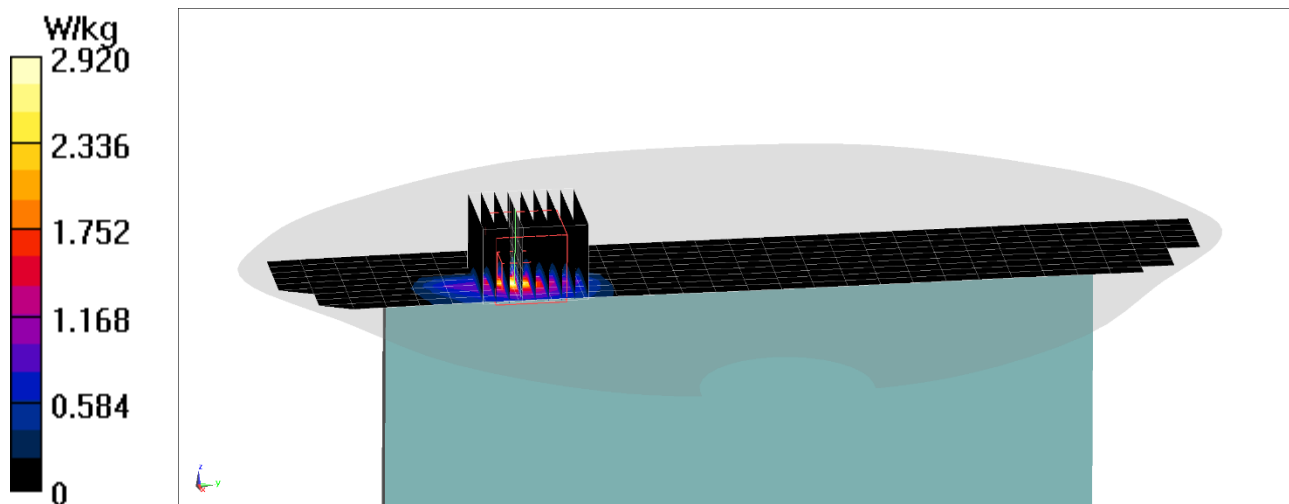
Area Scan (10x31x1): Measurement grid: dx=5mm, dy=10mm

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 14.77 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 5.13 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.294 W/kg



PCTEST

DUT: BCGA2069; Type: Tablet Device; Serial: DLXZV011PQLD

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.302

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2480 \text{ MHz}$; $\sigma = 1.992 \text{ S/m}$; $\epsilon_r = 50.709$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-14-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2480 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

Mode: Bluetooth, Antenna 2a, Body SAR, Ch 78, 1 Mbps, Back Side, Variant 2

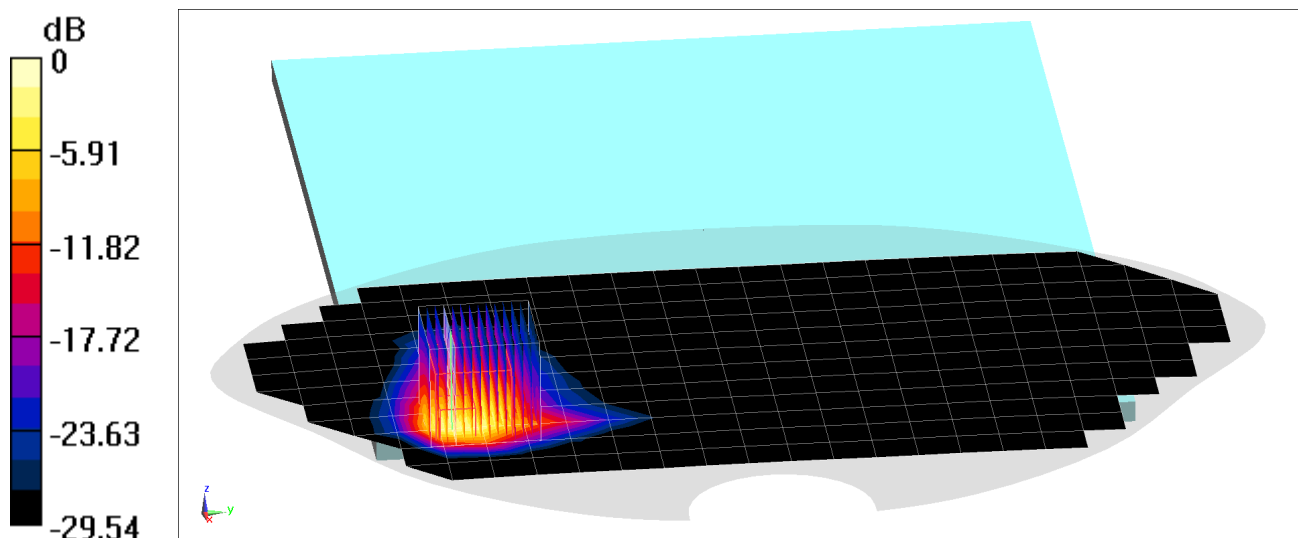
Area Scan (13x26x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 19.37 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.45 W/kg

SAR(1 g) = 0.906 W/kg; SAR(10 g) = 0.382 W/kg



0 dB = 2.42 W/kg = 3.84 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1034

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.956 \text{ S/m}$; $\epsilon_r = 53.72$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; ConvF(9.66, 9.66, 9.66) @ 750 MHz; Calibrated: 3/18/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736

Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

750 MHz System Verification at 23.0 dBm (200 mW)

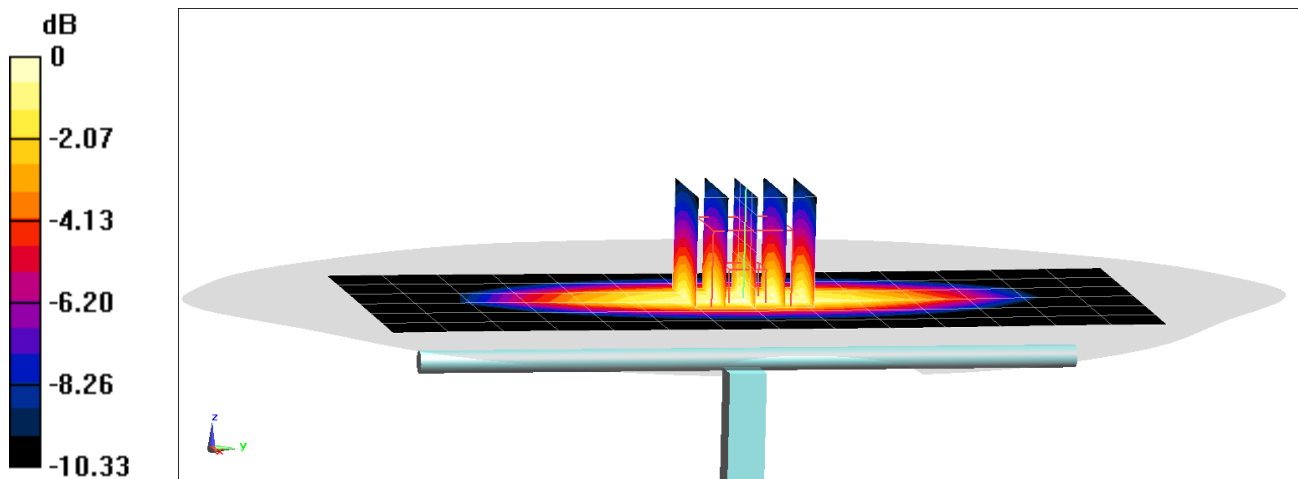
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.71 W/kg

SAR(1 g) = 1.8 W/kg; SAR(10 g) = 1.19 W/kg

Deviation(1 g) = 5.02%



0 dB = 2.40 W/kg = 3.80 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.978 \text{ S/m}$; $\epsilon_r = 54.548$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-16-2020; Ambient Temp: 20.4°C; Tissue Temp: 18.8°C

Probe: EX3DV4 - SN7427; ConvF(10.18, 10.18, 10.18) @ 835 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

835 MHz System Verification at 23.0 dBm (200 mW)

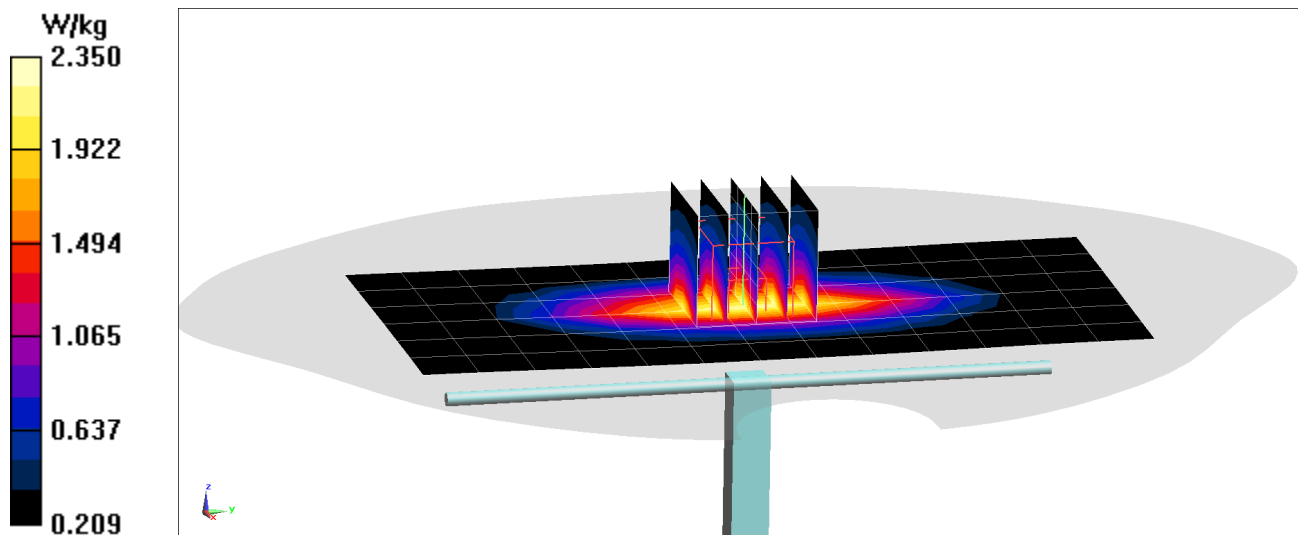
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 1.77 W/kg; SAR(10 g) = 1.17 W/kg

Deviation(1 g) = -7.14%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750$ MHz; $\sigma = 1.514$ S/m; $\epsilon_r = 51.328$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-26-2020; Ambient Temp: 19.8°C; Tissue Temp: 19.9°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1750 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1750 MHz System Verification at 20.0 dBm (100 mW)

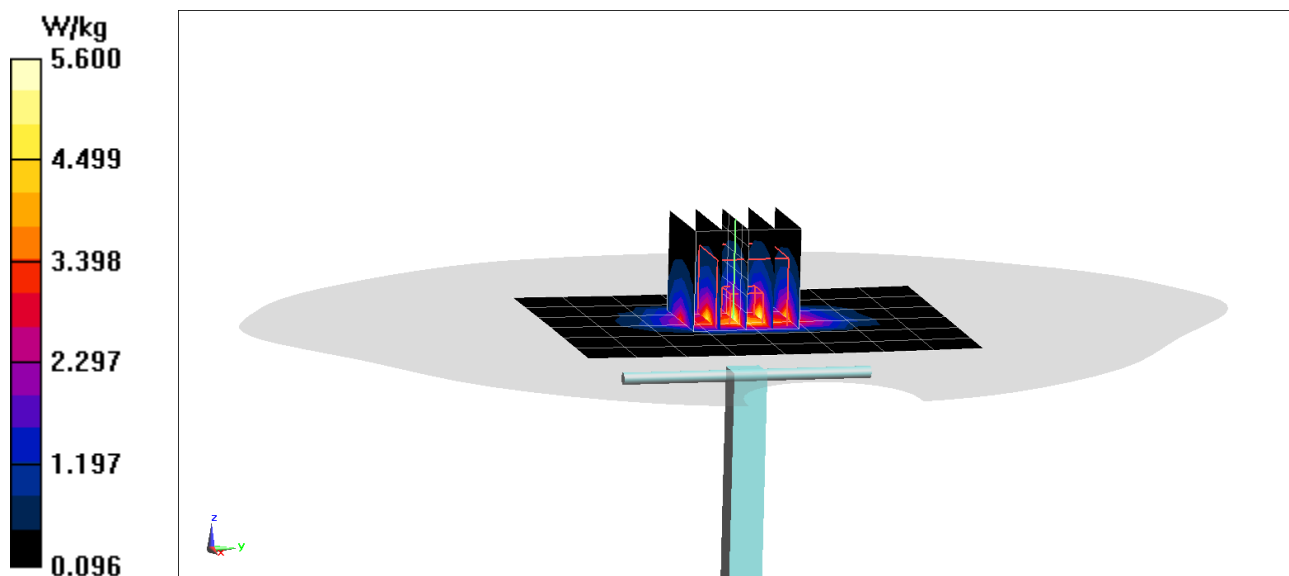
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.95 W/kg

Deviation(1 g) = -0.54%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.509 \text{ S/m}$; $\epsilon_r = 51.325$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-28-2020; Ambient Temp: 21.9°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1750 MHz; Calibrated: 2/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/13/2019

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1750 MHz System Verification at 20.0 dBm (100 mW)

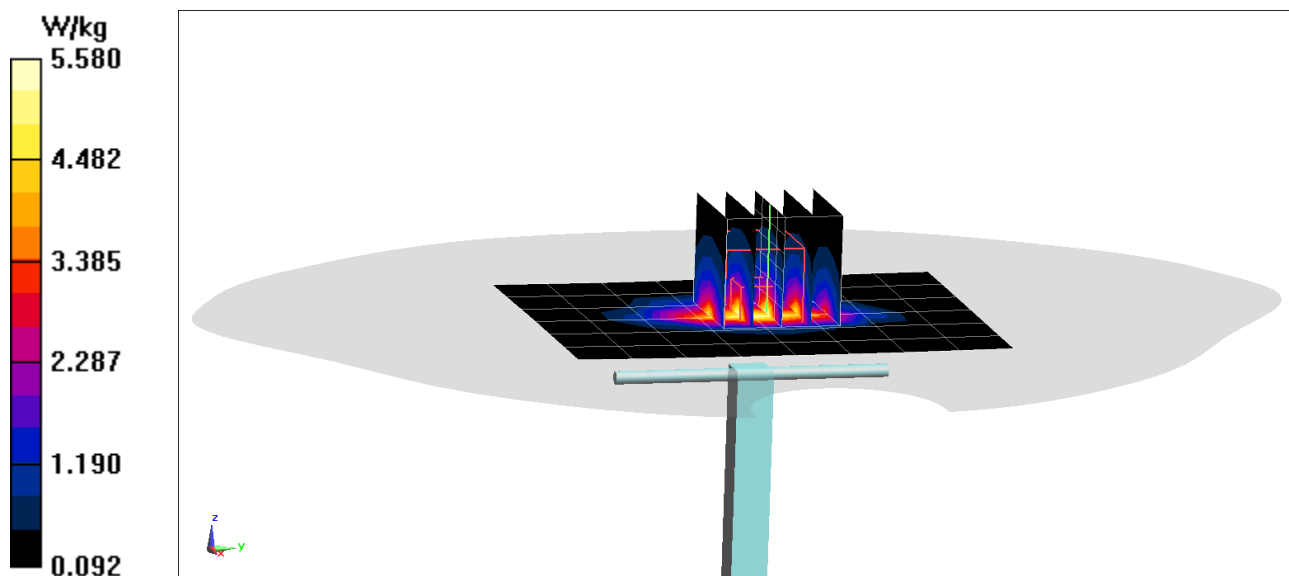
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.66 W/kg

SAR(1 g) = 3.7 W/kg; SAR(10 g) = 1.96 W/kg

Deviation(1 g) = -0.27%



PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 52.228$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-18-2020; Ambient Temp: 19.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1900 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

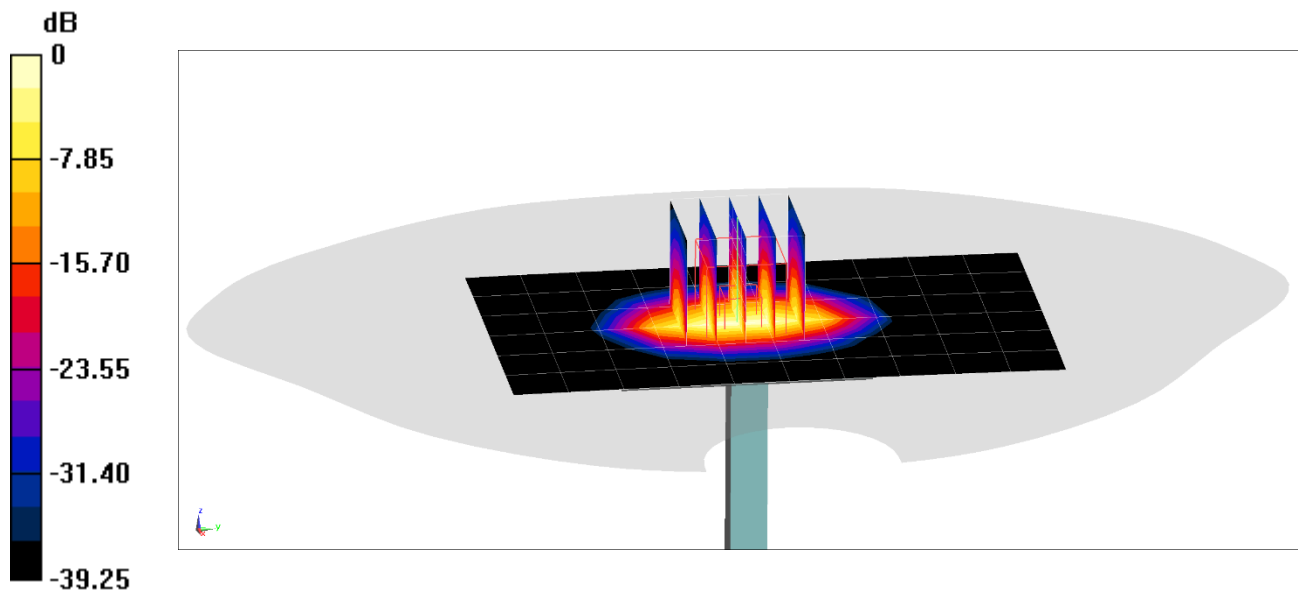
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.66 W/kg

SAR(1 g) = 4.19 W/kg; SAR(10 g) = 2.16 W/kg

Deviation(1 g) = 5.01%



0 dB = 6.11 W/kg = 7.86 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.578 \text{ S/m}$; $\epsilon_r = 52.272$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-20-2020; Ambient Temp: 22.3°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1900 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

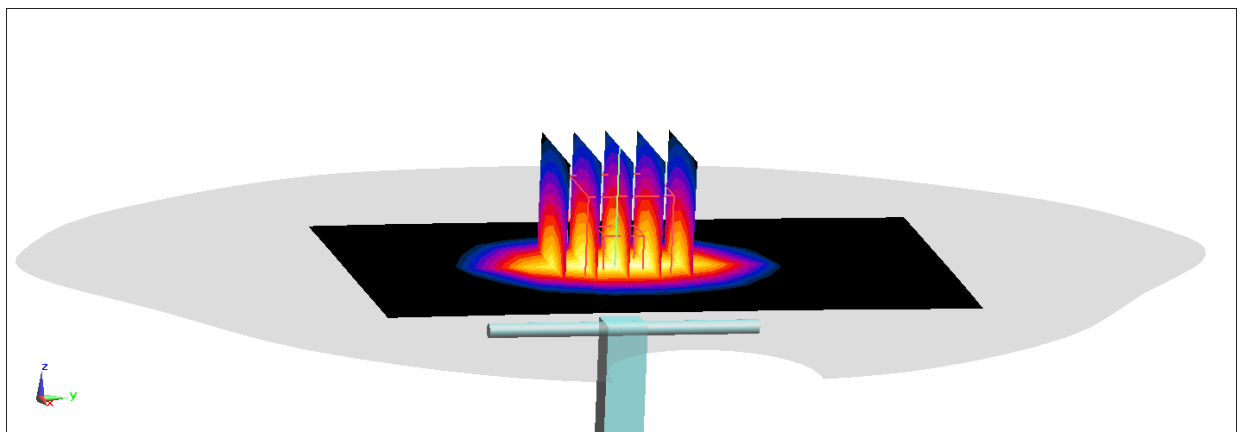
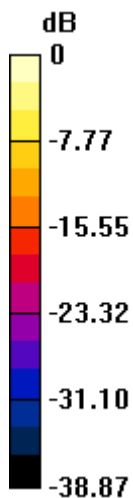
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.37 W/kg

SAR(1 g) = 4.02 W/kg; SAR(10 g) = 2.07 W/kg

Deviation(1 g) = 0.75%



0 dB = 5.98 W/kg = 7.77 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 51.599$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-22-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1900 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

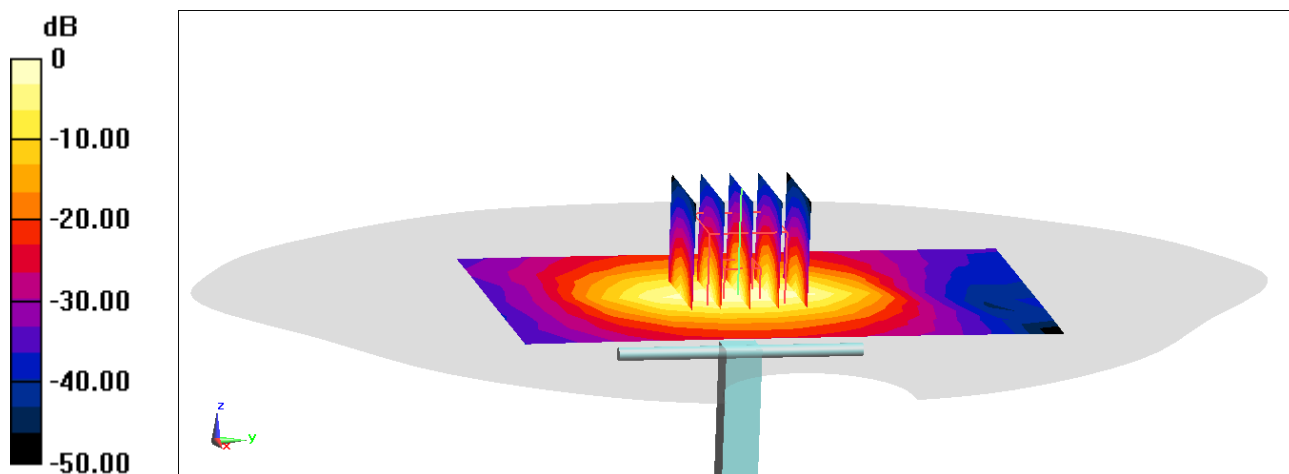
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.51 W/kg

SAR(1 g) = 4.08 W/kg; SAR(10 g) = 2.1 W/kg

Deviation(1 g) = 2.26%



0 dB = 5.99 W/kg = 7.77 dBW/kg

PCTEST

DUT: Dipole 2300 MHz; Type: D2300V3; Serial: 1038

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: 2300 MHz Body Medium parameters used:

$f = 2300 \text{ MHz}$; $\sigma = 1.829 \text{ S/m}$; $\epsilon_r = 52.614$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-26-2020; Ambient Temp: 23.1°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7532; ConvF(7.93, 7.93, 7.93) @ 2300 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2300 MHz System Verification at 20.0 dBm (100 mW)

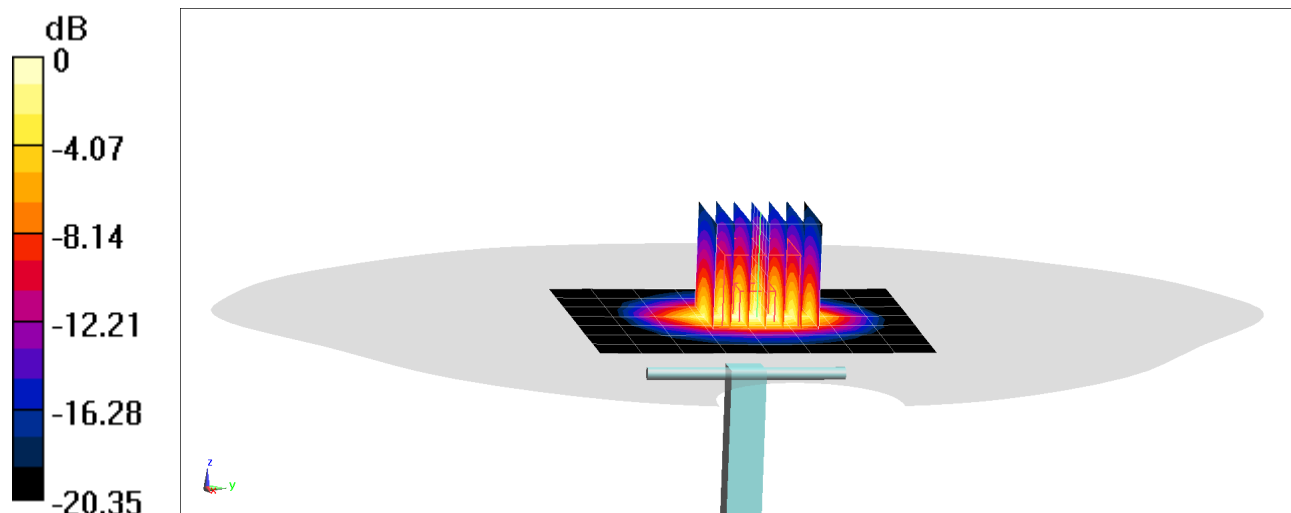
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 8.62 W/kg

SAR(1 g) = 4.41 W/kg; SAR(10 g) = 2.11 W/kg

Deviation(1 g) = -5.57%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.022 \text{ S/m}$; $\epsilon_r = 50.678$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-18-2019; Ambient Temp: 20.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

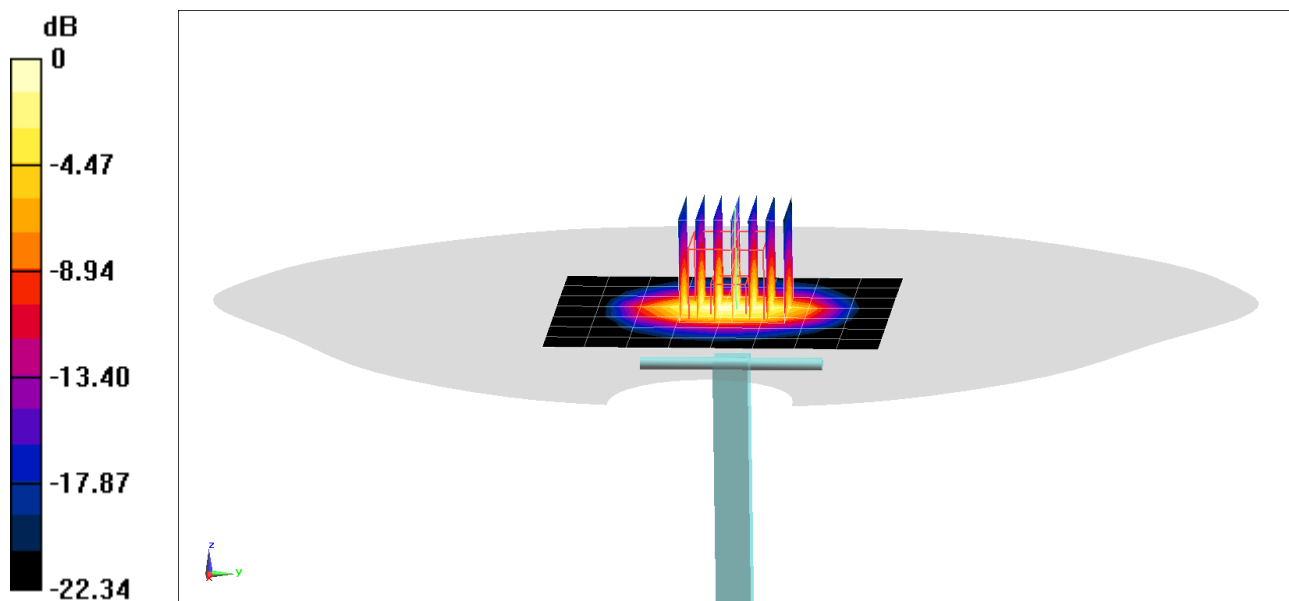
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.32 W/kg; SAR(10 g) = 2.45 W/kg

Deviation(1 g) = 4.72%



0 dB = 8.82 W/kg = 9.45 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450$ MHz; $\sigma = 1.948$ S/m; $\epsilon_r = 50.877$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-14-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

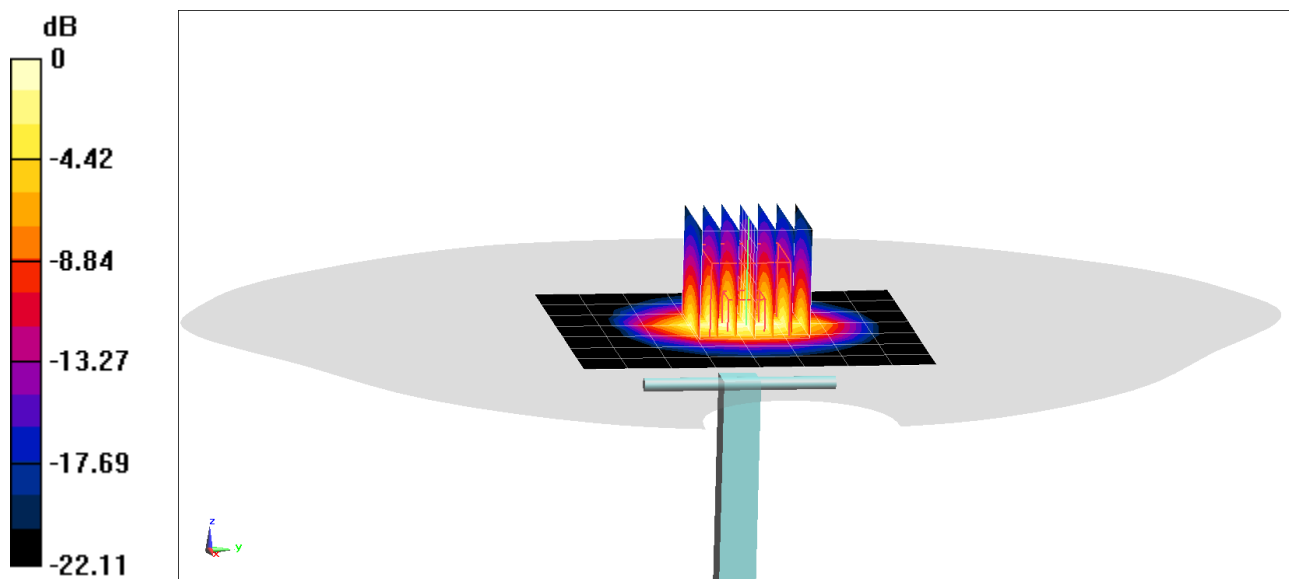
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.12 W/kg; SAR(10 g) = 2.36 W/kg

Deviation(1 g) = 0.79%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.032 \text{ S/m}$; $\epsilon_r = 51.895$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-24-2020; Ambient Temp: 22.5°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

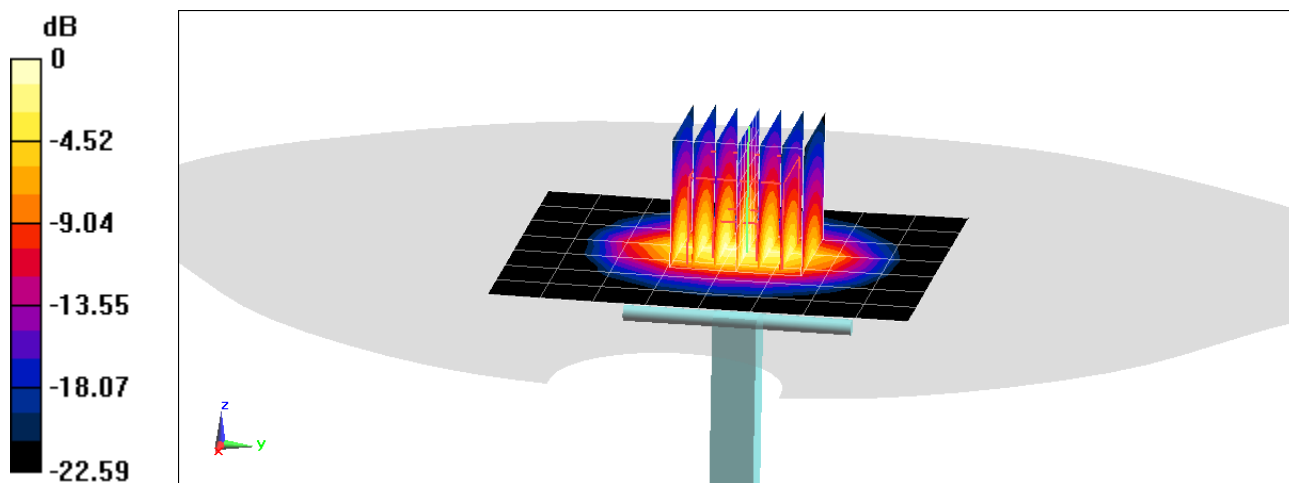
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.38 W/kg

Deviation(1 g) = 5.67%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.023 \text{ S/m}$; $\epsilon_r = 53.116$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-27-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3949; ConvF(7.75, 7.75, 7.75) @ 2450 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

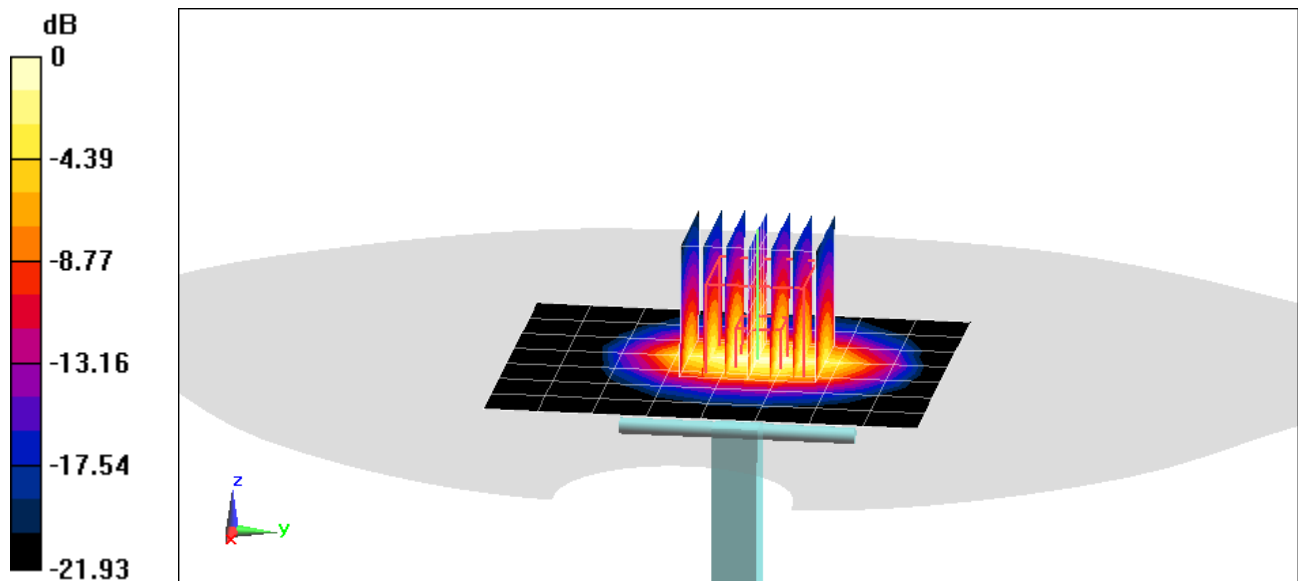
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.29 W/kg; SAR(10 g) = 2.46 W/kg

Deviation(1 g) = 7.09%



0 dB = 8.80 W/kg = 9.44 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1009

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.245$ S/m; $\epsilon_r = 51.234$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-24-2020; Ambient Temp: 22.5°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7532; ConvF(7.47, 7.47, 7.47) @ 2600 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2600 MHz System Verification at 20.0 dBm (100 mW)

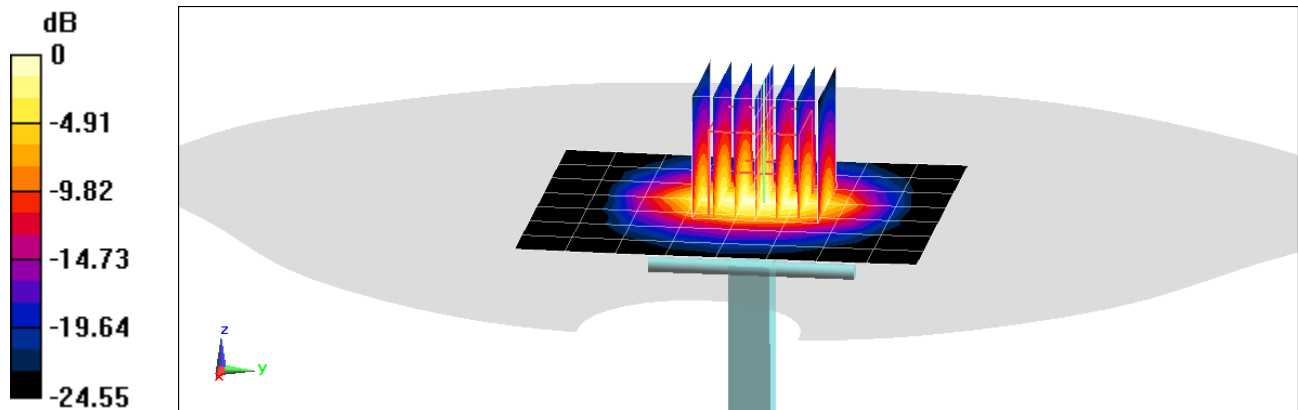
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 5.7 W/kg; SAR(10 g) = 2.47 W/kg

Deviation(1 g) = 2.70%



0 dB = 9.90 W/kg = 9.96 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1009

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 2.198 \text{ S/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-27-2020; Ambient Temp: 21.9°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3949; ConvF(7.69, 7.69, 7.69) @ 2600 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2600 MHz System Verification at 20.0 dBm (100 mW)

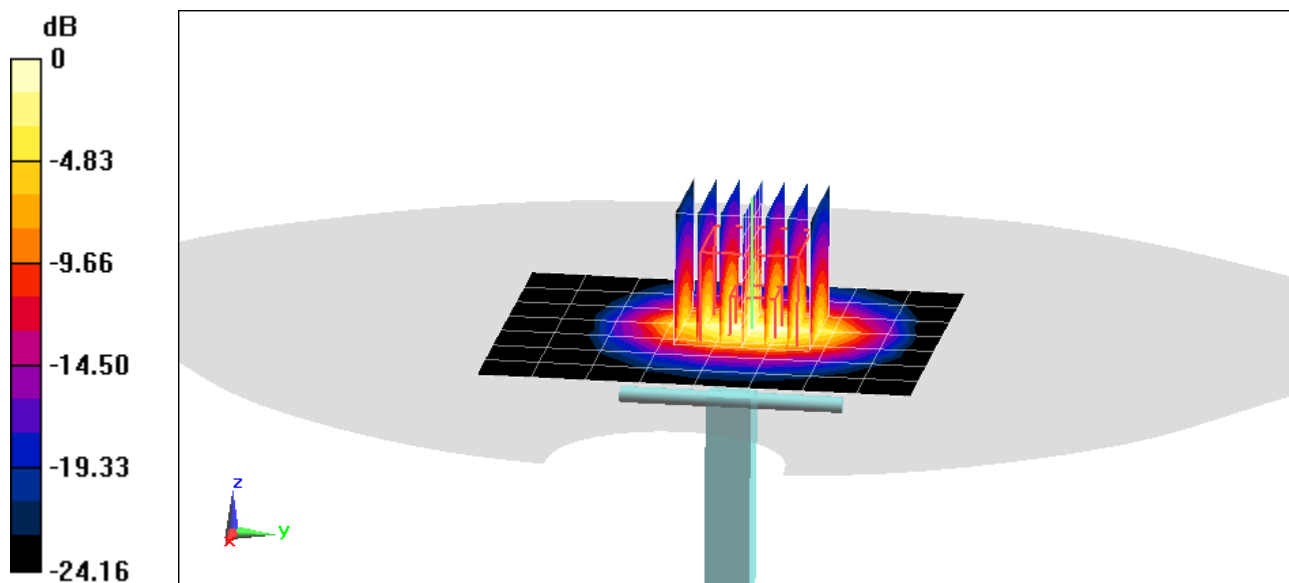
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.34 W/kg; SAR(10 g) = 2.34 W/kg

Deviation(1 g) = -3.78%



0 dB = 9.27 W/kg = 9.67 dBW/kg

PCTEST

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: 1068

Communication System: UID 0, CW; Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: 3500 - 3700 MHz Body Medium parameters used:

$f = 3500$ MHz; $\sigma = 3.361$ S/m; $\epsilon_r = 49.551$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-20-2019; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3949; ConvF(6.88, 6.88, 6.88) @ 3500 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

3500 MHz System Verification at 20.0 dBm (100 mW)

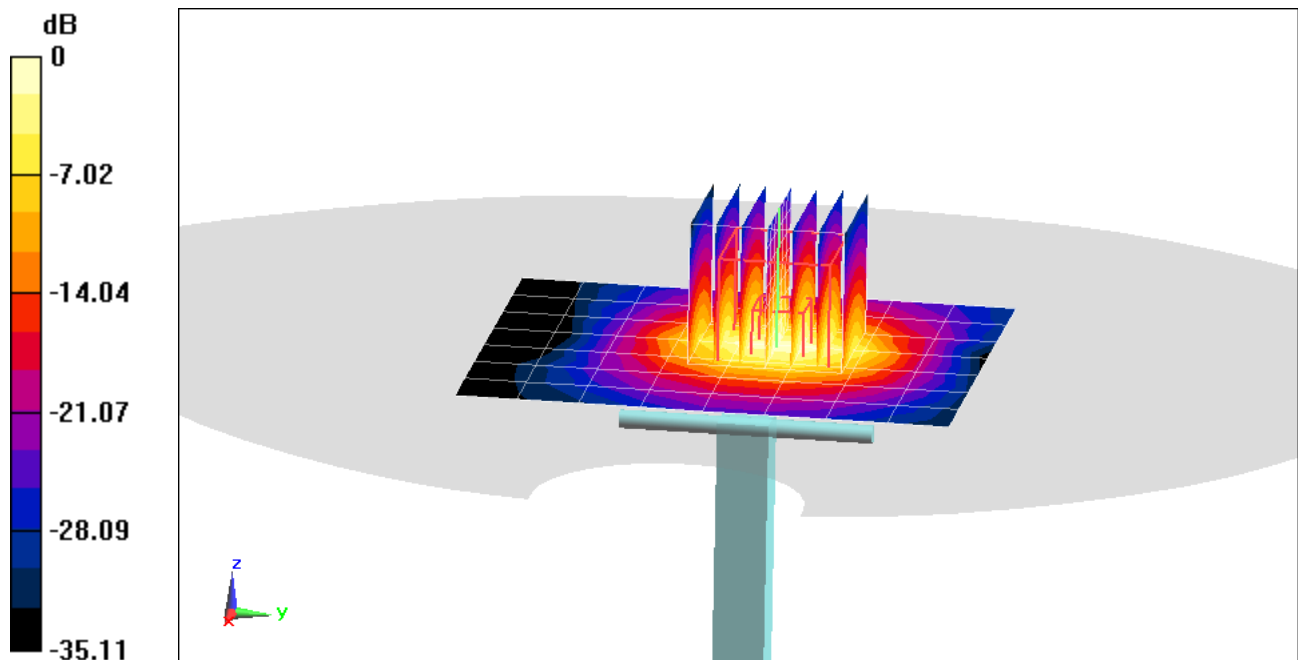
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 6.16 W/kg; SAR(10 g) = 2.28 W/kg

Deviation(1 g) = -5.67%



0 dB = 12.0 W/kg = 10.79 dBW/kg

PCTEST

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: 1029

Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: 3500 - 3700 MHz Body Medium parameters used (interpolated):

$f = 3700$ MHz; $\sigma = 3.628$ S/m; $\epsilon_r = 48.993$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-20-2019; Ambient Temp: 21.4°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN3949; ConvF(6.78, 6.78, 6.78) @ 3700 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

3700 MHz System Verification at 20.0 dBm (100 mW)

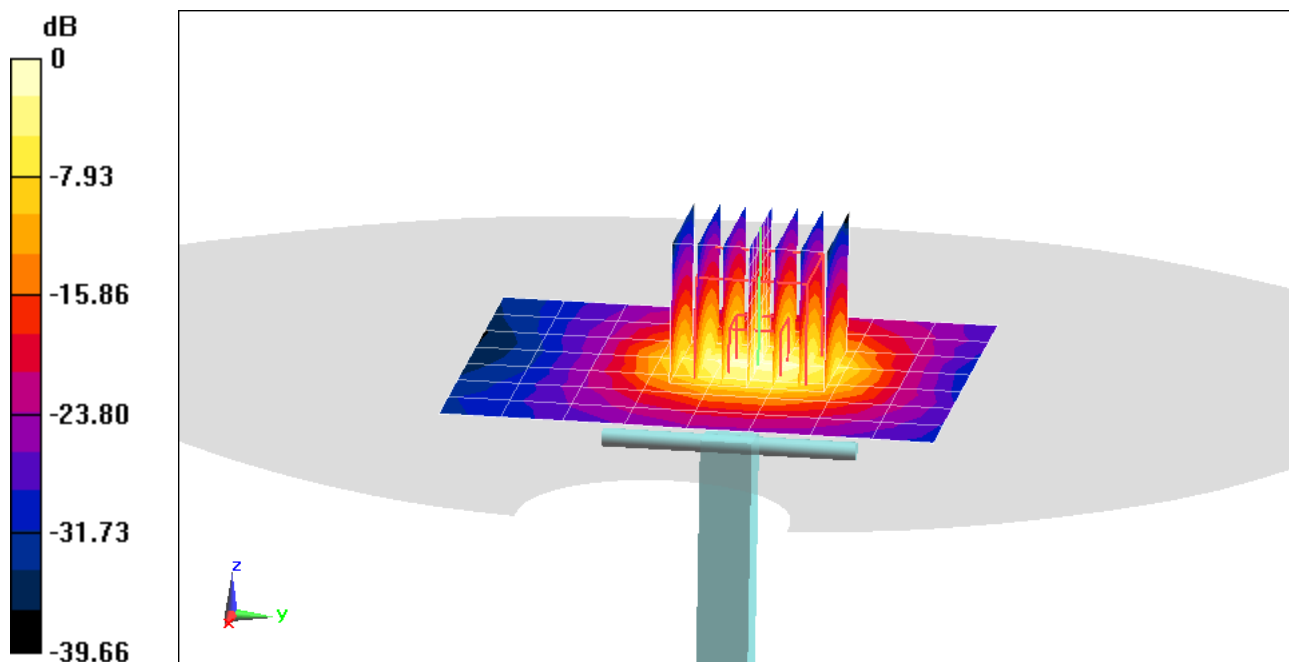
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 6.28 W/kg; SAR(10 g) = 2.22 W/kg

Deviation(1 g) = -3.24%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5GHz Body Medium parameters used (interpolated):

$f = 5250 \text{ MHz}$; $\sigma = 5.186 \text{ S/m}$; $\epsilon_r = 47.606$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-23-2019; Ambient Temp: 21.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7491; ConvF(4.87, 4.87, 4.87) @ 5250 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

5250 MHz System Verification at 17.0 dBm (50 mW)

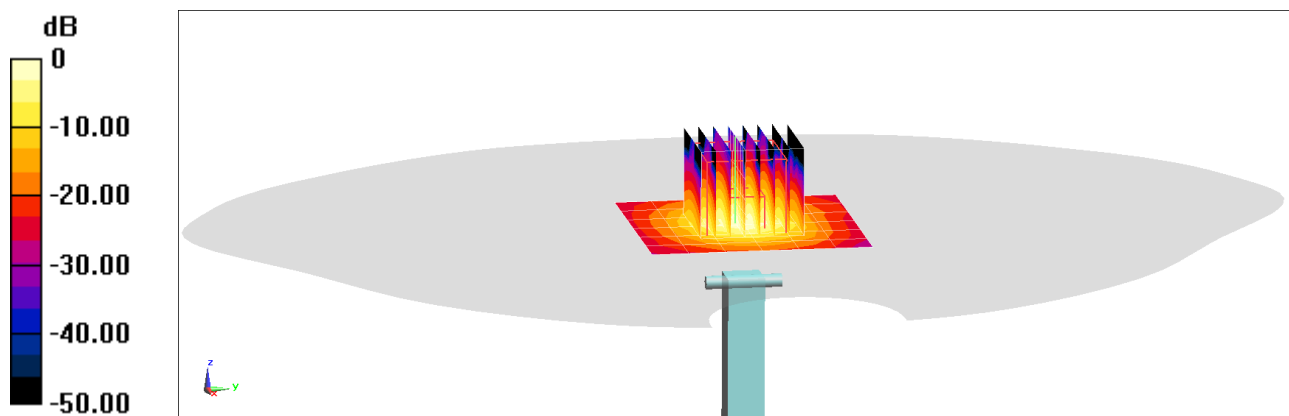
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.0 W/kg

SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.04 W/kg

Deviation(1 g) = 1.35%



0 dB = 8.73 W/kg = 9.41 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.674 \text{ S/m}$; $\epsilon_r = 46.932$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-23-2019; Ambient Temp: 21.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7491; ConvF(4.23, 4.23, 4.23) @ 5600 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

5600 MHz System Verification at 17.0 dBm (50 mW)

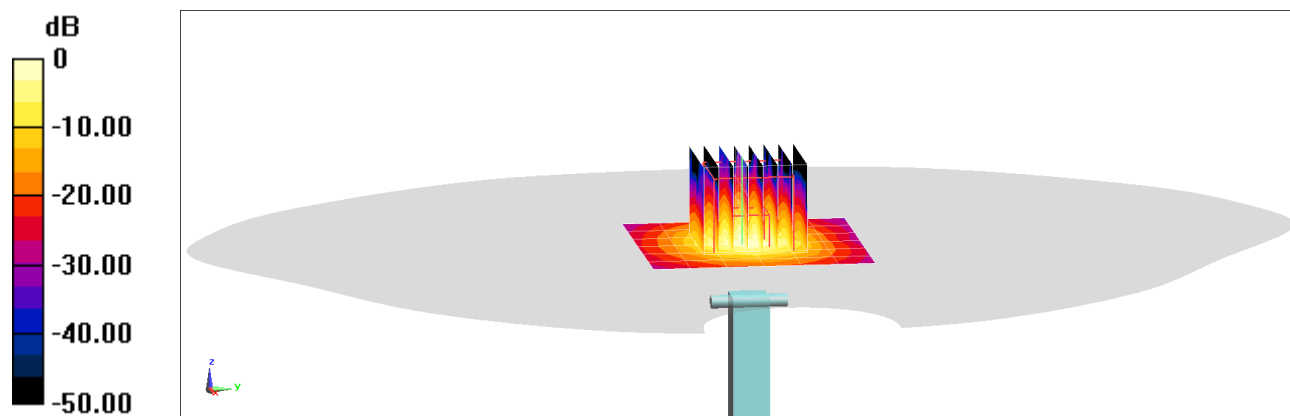
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 4.02 W/kg; SAR(10 g) = 1.1 W/kg

Deviation(1 g) = 3.61%



0 dB = 9.56 W/kg = 9.80 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5GHz Body Medium parameters used (interpolated):

$f = 5750 \text{ MHz}$; $\sigma = 5.901 \text{ S/m}$; $\epsilon_r = 46.627$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-23-2019; Ambient Temp: 21.1°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7491; ConvF(4.32, 4.32, 4.32) @ 5750 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1402; Calibrated: 7/10/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

5750 MHz System Verification at 17.0 dBm (50 mW)

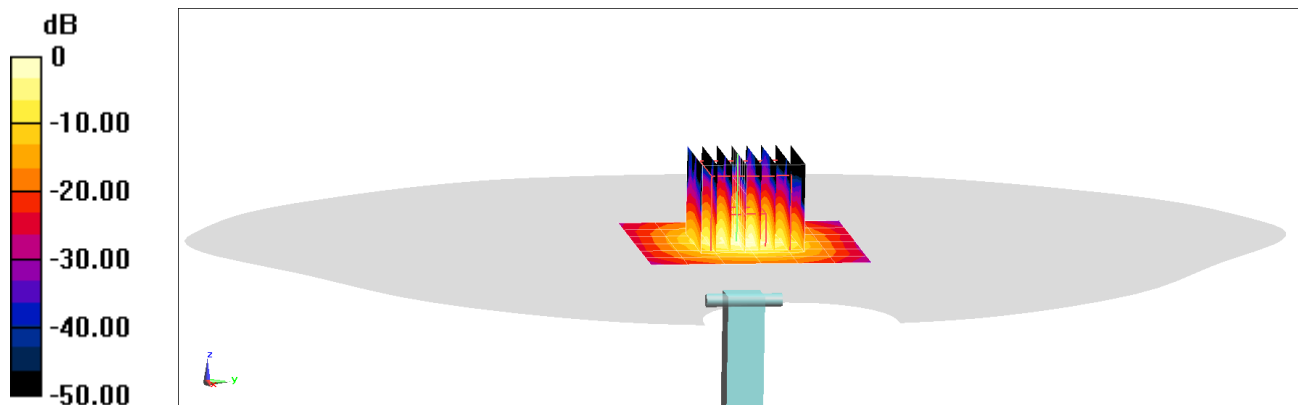
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 0.992 W/kg

Deviation(1 g) = -4.15%



0 dB = 8.79 W/kg = 9.44 dBW/kg

APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID: BCGA2069	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/18/2019 – 01/28/2020	DUT Type: Tablet Device		APPENDIX C: Page 1 of 3

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho' \cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	Ethanedial STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	Sodium petroleum sulfonate Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	Alkoxyated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCC ID: BCGA2069	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/18/2019 – 01/28/2020	DUT Type: Tablet Device		APPENDIX C: Page 2 of 3

Measurement Certificate / Material Test

Item Name **Body Tissue Simulating Liquid (MBBL600-6000V6)**
Product No. SL AAM U16 BC (Batch: 181029-1)
Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

Test Condition

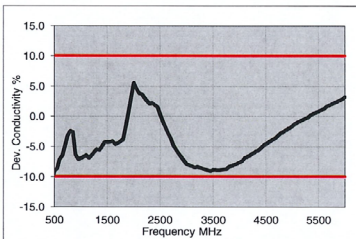
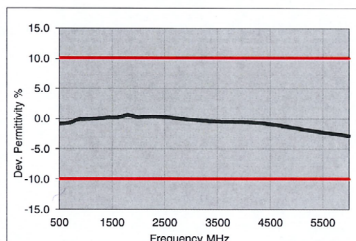
Ambient Condition 22°C ; 30% humidity
TSL Temperature 22°C
Test Date 30-Oct-18
Operator CL

Additional Information

TSL Density
TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1
825	55.1	20.8	0.96	55.2	0.98	-0.3	-2.0
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6
1500	54.1	15.3	1.27	53.9	1.33	0.3	-4.5
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2
1650	53.8	14.9	1.36	53.7	1.43	0.2	-4.9
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0
1800	53.7	14.6	1.46	53.3	1.52	0.8	-3.9
1810	53.7	14.6	1.47	53.3	1.52	0.8	-3.3
1825	53.7	14.6	1.48	53.3	1.52	0.8	-2.6
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3
2050	53.4	14.4	1.64	53.2	1.57	0.3	4.5
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2
2400	52.9	14.5	1.94	52.8	1.90	0.2	2.1
2450	52.9	14.5	1.98	52.7	1.95	0.4	1.5
2500	52.8	14.6	2.03	52.6	2.02	0.3	0.5
2550	52.7	14.6	2.07	52.6	2.09	0.2	-1.0
2600	52.6	14.7	2.12	52.5	2.16	0.2	-1.9



3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
5600	47.3	18.8	5.84	48.5	5.77	-2.3	1.3
5700	47.1	18.9	5.99	48.3	5.88	-2.5	1.8
5800	47.0	19.0	6.14	48.2	6.00	-2.6	2.3

TSL Dielectric Parameters

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Figure C-2
600 – 5800 MHz Body Tissue Equivalent Matter

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APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCGA2069	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
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Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1
SAR System Validation Summary – 1g

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ϵ_r)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM1	750	7/15/2019	7421	750	Body	0.93	53.942	PASS	PASS	PASS	N/A	N/A	N/A
AM6	835	8/7/2019	7427	835	Body	0.959	54.066	PASS	PASS	PASS	GMSK	PASS	N/A
AM6	1750	3/12/2019	7427	1750	Body	1.456	51.525	PASS	PASS	PASS	N/A	N/A	N/A
AM2	1900	12/5/2019	7420	1900	Body	1.49	52.56	PASS	PASS	PASS	GMSK	PASS	N/A
AM4	2300	4/23/2019	7532	2300	Body	1.897	50.974	PASS	PASS	PASS	N/A	N/A	N/A
AM4	2450	4/23/2019	7532	2450	Body	2.027	50.762	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM3	2450	9/4/2019	3949	2450	Body	1.955	52.22	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM4	2600	4/23/2019	7532	2600	Body	2.167	50.527	PASS	PASS	PASS	TDD	PASS	N/A
AM3	2600	9/4/2019	3949	2600	Body	2.096	51.97	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3500	12/11/2019	3949	3500	Body	3.448	50.786	PASS	PASS	PASS	TDD	PASS	N/A
AM3	3700	12/11/2019	3949	3700	Body	3.67	50.471	PASS	PASS	PASS	TDD	PASS	N/A
AM5	5250	8/27/2019	7491	5250	Body	5.352	47.481	PASS	PASS	PASS	OFDM	N/A	PASS
AM5	5600	8/14/2019	7491	5600	Body	5.897	46.808	PASS	PASS	PASS	OFDM	N/A	PASS
AM5	5750	8/14/2019	7491	5750	Body	6.122	46.512	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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APPENDIX F: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.
- The antenna with highest maximum output power for each LTE Band was selected for the PCC configurations of DLCA power measurements.

Table 1 – Example of Exclusion Table for SISO Configurations

Index	ACC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
222-41	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-42	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-43	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-44	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-45	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-46	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-47	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-48	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-49	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-50	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-51	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-52	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-53	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-54	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-55	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-56	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-57	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-58	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-59	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-60	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-61	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-62	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-63	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-64	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-65	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-66	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-67	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-68	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-69	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-70	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-71	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-72	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-73	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-74	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-75	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-76	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-77	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-78	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-79	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-80	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-81	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-82	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-83	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-84	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-85	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-86	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-87	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-88	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-89	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-90	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-91	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-92	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-93	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-94	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-95	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-96	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-97	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-98	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-99	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-100	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes

Table 2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

Index	ACC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
222-101	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-102	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-103	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-104	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-105	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-106	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-107	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-108	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-109	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-110	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-111	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-112	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-113	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-114	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-115	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-116	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-117	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-118	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-119	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-120	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-121	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-122	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-123	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-124	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-125	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-126	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-127	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-128	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-129	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-130	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-131	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-132	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-133	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-134	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-135	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-136	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-137	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-138	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-139	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-140	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-141	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-142	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-143	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-144	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-145	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-146	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-147	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-148	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-149	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-150	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-151	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-152	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-153	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-154	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-155	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-156	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-157	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-158	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-159	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-160	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-161	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-162	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-163	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-164	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-165	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-166	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-167	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-168	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-169	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-170	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-171	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-172	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-173	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-174	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-175	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-176	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-177	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-178	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-179	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-180	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-181	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-182	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-183	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-184	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-185	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-186	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-187	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-188	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-189	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-190	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-191	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-192	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-193	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-194	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-195	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-196	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-197	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-198	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-199	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
222-200	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes

Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

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1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.

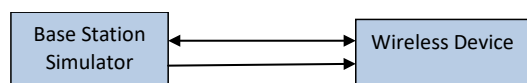


Figure 1
DL CA Power Measurement Setup

FCC ID: BCGA2069	 PCTEST Ready to be part of the solution	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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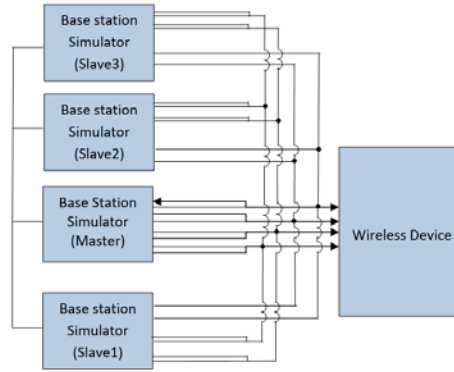


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 71 as PCC

Table 1
Output Powers – Ant 3

Combination	PCC								SCC 1				SCC 2				SCC 3				Power		
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 4A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	23.00	23.00
CA 2A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1560	LTE B4	20	2175	2132.5	-	-	-	-	22.99	23.00
CA 2A-2A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1560	LTE B2	20	700	1940	LTE B66	20	66765	2145	23.00	23.00
CA 2A-66A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1560	LTE B66	20	66765	2145	LTE B66	20	66765	2150	23.00	23.00
CA 2A-66C-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	LTE B2	20	900	1560	LTE B66	20	66765	2145	LTE B66	20	66964	2164.8	22.99	23.00

FCC ID: BCGA2069	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/18/2019-1/28/2020	DUT Type: Tablet Device		APPENDIX F: Page 3 of 16

1.3.2 LTE Band 12 as PCC

Table 2
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC				PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 2A-12A (1)	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.71	21.77	
CA 4A-12A (1)	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.71	21.77	
CA 4A-12A (2)	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.71	21.77	
CA 12A-25A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B25	20	8305	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.73	21.77	
CA 12A-66A (1)	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B66	20	50655	5337.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.77	21.77	
CA 12A-66A (2)	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.70	21.77	
CA 2C-12A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.61	21.77
CA 2A-2A-12B	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B12	10	5083	736.3	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	-	-	-	-	21.58	21.77
CA 4A-4A-12B	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B12	10	5083	736.3	LTE B4	20	2175	2132.5	LTE B4	10	2360	2140	-	-	-	-	-	-	-	-	-	-	21.54	21.77
CA 2A-2A-12A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	21.50	21.77
CA 2A-4A-4A-12A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2360	2140	-	-	-	-	-	-	-	-	-	-	21.50	21.77
CA 2A-4A-12B	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B12	10	5083	736.3	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	21.53	21.77
CA 2A-13A-66C	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66884	2144.8	-	-	-	-	-	-	-	-	-	-	21.57	21.77
CA 4A-4A-12A-30A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B4	20	2175	2132.5	LTE B4	20	2360	2150	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	-	21.68	21.77
CA 2A-4A-7A-12A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B7	20	3100	2695	-	-	-	-	-	-	-	-	-	-	21.58	21.77
CA 2A-4A-12A-30A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	-	21.63	21.77
CA 2A-7A-12A-66A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B7	20	3100	2695	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	21.57	21.77
CA 2A-2A-12A-66A-66A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2130	67236	2130	21.52	21.77	21.52	21.77		
CA 2A-2A-12A-30A-66A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8620	2355	LTE B66	20	66786	2145	67236	2130	21.51	21.77	21.51	21.77		
CA 2A-13A-30A-66A-66A	LTE B12	5	23155	713.5	64QAM	1	24	5155	743.5	LTE B2	20	900	1960	LTE B30	10	8620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2130	67236	2130	21.51	21.77	21.51	21.77		

1.3.3 LTE Band 13 as PCC

Table 3
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC						SCC 1				SCC 2				SCC 3				SCC 4				Power				
			PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 4A-4A-13A	LTE B13	10	23230	762	64QAM	1	0	5230	753	LTE B4	20	2175	2132.5	LTE B4	20	2360	2150	-	-	-	-	-	-	-	-	-	-	21.44	21.64
CA 4A-4A-13A	LTE B13	10	23230	762	64QAM	1	0	5230	753	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	21.58	21.64
CA 2A-13A-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B66	20	50655	5537.5	-	-	-	-	-	-	-	-	-	-	21.54	21.80
CA 13A-66A-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	50655	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	21.61	21.80
CA 13A-66A-66B	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	21.75	21.80
CA 13A-66A-66B	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	66786	2145	LTE B66	5	67168	2162.2	LTE B66	15	67261	2162.5	-	-	-	-	-	-	21.53	21.80
CA 13A-66A-66C	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	66786	2145	LTE B66	20	67168	2170.2	LTE B66	20	67236	2150	-	-	-	-	-	-	21.56	21.80
CA 2A-2A-13A-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	21.47	21.80
CA 2A-13A-66C	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B66	20	50655	5537.5	LTE B66	20	50467	5517.7	-	-	-	-	-	-	21.63	21.80
CA 2A-13A-66A-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2150	-	-	-	-	-	-	21.40	21.80
CA 2A-13A-66B	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	5	66972	2164.3	-	-	-	-	-	-	21.57	21.80
CA 2A-13A-66C	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	21.54	21.80
CA 13A-66C-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	50655	5537.5	LTE B66	20	50467	5517.7	LTE B66	20	66786	2145	-	-	-	-	-	-	21.54	21.80
CA 13A-46C-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	50655	5537.5	LTE B46	20	50863	5537.7	LTE B46	20	50863	5537.3	LTE B46	20	50863	5537.3	-	21.62	21.80	
CA 13A-46C-66B	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	66959	2625	LTE B46	20	50863	5537.7	LTE B46	20	66168	2644.9	LTE B66	20	66786	2145	-	21.76	21.80	
CA 13A-46E	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	50655	5537.5	LTE B46	20	50863	5537.7	LTE B46	20	50863	5537.3	LTE B46	20	50863	5537.3	-	21.62	21.80	
CA 2A-13A-46D	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B2	20	900	1960	LTE B46	20	50655	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5537.3	-	21.45	21.80	
CA 13A-46D-66A	LTE B13	5	23230	762	64QAM	1	12	5230	753	LTE B66	20	50655	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5537.3	LTE B66	20	66786	2145	-	21.51	21.80	

1.3.4 LTE Band 14 as PCC

Table 4
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power				
			PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-14A-66A-66A	LTE B14	5	21310	731	16QAM	1	24	5330	763	LTE B2	20	800	1960	LTE B2	20	700	1940	LTE B6G	20	66786	2148	LTE B6G	20	67236	2180	21.33	21.69
CA 2A-2A-14A-30A-66A	LTE B14	5	21310	731	16QAM	1	24	5330	763	LTE B2	20	800	1960	LTE B2	20	700	1940	LTE B3D	10	9820	2355	LTE B6G	20	66786	2148	21.28	21.69
CA 2A-14A-30A-66A-66A	LTE B14	5	21310	731	16QAM	1	24	5330	763	LTE B2	20	900	1960	LTE B3D	10	9820	2355	LTE B6G	20	66786	2145	LTE B6G	20	67236	2180	21.38	21.69

1.3.5

LTE Band 5 as PCC

Table 5
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 5A-7A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.19	21.20	
CA 5A-25A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.19	21.20	
CA 5A-41A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.19	21.20	
CA 5A-46A (1)	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.20	21.20	
CA 5A-46A	LTE B5	5	26025	846.5	64QAM	2	0	2625	891.5	LTE B46	20	50060	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.18	21.20	
CA 2C-5A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B2	20	792	1940.2	-	-	-	-	-	-	-	-	-	-	-	-	-	20.98	21.20
CA 4A-5B (1)	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	5	2577	886.7	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	21.01	21.20
CA 5A-7A-7A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B7	20	3100	2655	LTE B7	20	2950	2630	-	-	-	-	-	-	-	-	-	-	-	-	-	20.94	21.20
CA 5A-7C	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	-	-	-	-	-	-	-	-	-	-	-	-	-	21.03	21.20
CA 5A-46C (1)	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B46	20	50065	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	20.97	21.20	
CA 2A-5A-46A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	21.08	21.20
CA 5A-46A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B46	20	50065	5537.5	LTE B46	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	20.96	21.20
CA 4A-5B	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	10	2553	884.3	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	-	-	-	-	21.01	21.20
CA 5A-46D (1)	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	-	21.07	21.20
CA 5A-66A-66B	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B66	20	66786	2145	LTE B66	5	67168	2183.2	LTE B66	15	67261	2162.9	-	-	-	-	-	-	-	-	-	21.01	21.20
CA 5A-66A-66C	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B66	20	66786	2145	LTE B66	20	67336	2190	LTE B66	20	67336	2190	-	-	-	-	-	-	-	-	-	20.99	21.20
CA 2A-2A-5A-5A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B2	20	792	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	20.98	21.20
CA 2A-4A-4A-5A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	-	-	-	-	-	-	-	-	-	20.97	21.20
CA 2A-4A-5B	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	800	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	21.01	21.20
CA 2A-5B-66C	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B46	20	50065	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50065	5537.5	-	-	-	-	21.07	21.20	
CA 4A-4A-5A-30A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	21.05	21.20
CA 5A-46C-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B46	20	50065	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	66786	2145	-	-	-	-	-	-	-	-	-	21.01	21.20
CA 2A-4A-5A-30A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B4	20	2175	2132.5	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	21.05	21.20
CA 2A-2A-5A-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B2	20	792	1940	LTE B66	20	66786	2145	LTE B66	20	67336	2190	20.97	21.20					
CA 2A-5A-66B	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B2	20	792	1940	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	20.92	21.20					
CA 2A-5A-66C	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B2	20	792	1940	LTE B66	20	66786	2145	LTE B66	20	66879	2154.3	20.98	21.20					
CA 2A-5A-46D	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B46	20	50065	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50065	5537.5	20.99	21.20					
CA 2A-5B-66B	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	800	1960	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	21.20	21.20					
CA 2A-5B-66C	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	800	1960	LTE B66	20	66786	2145	LTE B66	20	66879	2154.3	20.93	21.20					
CA 2A-5B-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	800	1960	LTE B66	20	66786	2145	LTE B66	20	67336	2190	20.94	21.20					
CA 4A-46C-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B46	20	50065	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50065	5537.5	LTE B46	20	66786	2145	20.91	21.20					
CA 5B-30A-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B30	20	8620	2355	LTE B66	20	66786	2145	LTE B66	20	67336	2190	20.95	21.20									
CA 2A-2A-5A-30A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B2	20	792	1940	LTE B30	10	8620	2355	LTE B66	20	66786	2145	20.87	21.20					
CA 2A-5A-30A-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B2	20	800	1960	LTE B30	10	8620	2355	LTE B66	20	66786	2145	LTE B66	20	67336	2190	20.81	21.20					
CA 2A-5B-30A-66A	LTE B5	5	26025	846.5	64QAM	1	0	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	800	1960	LTE B30	10	8620	2355	LTE B66	20	66786	2145	20.92	21.20					

1.3.6

LTE Band 26 as PCC

Table 6
Output Powers – Ant 3

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 7A-26A	LTE B26	10	26990	844	QPSK	25	12	8990	889	LTE B7	20	3100	2655	-	-	-	-	21.48	21.50
CA 25A-26A	LTE B26	10	26990	844	QPSK	25	12	8990	889	LTE B25	20	8365	1962.5	-	-	-	-	21.50	21.50
CA 26A-41A	LTE B26	10	26990	844	QPSK	25	12	8990	889	LTE B41	20	40620	2593	-	-	-	-	21.49	21.50
CA 7A-7A-26A	LTE B26	10	26990	844	QPSK	25	12	8990	889	LTE B7	20	3100	2655	LTE B7	20	2850	2630	21.48	21.50
CA 25A-25A-26A	LTE B26	5	27015	846.5	64QAM	1	0	9015	891.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	21.14	21.50
CA 26A-41C	LTE B26	10	26990	844	QPSK	25	12	8990	889	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	21.39	21.50

FCC ID: BCGA2069



SAR EVALUATION REPORT

Reviewed by:
Quality Manager

Test Dates:
12/18/2019-1/28/2020

DUT Type:
Tablet Device

APPENDIX F:
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Table 7
Output Powers – Ant 2B

FCC ID: BCGA2069	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/18/2019-1/28/2020	DUT Type: Tablet Device	APPENDIX F: Page 6 of 16

1.3.8 LTE Band 25 as PCC

Table 8
Output Powers – Ant 2A

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power			
	PCC Band	PCC BW [MHz]	PCC [UL] Ch	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]			
CA 5A-25A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 12A-25A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00		
CA 25A-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B25	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00		
CA 25A-46A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B46	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 25A-25A-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B25	20	8900	1960	LTE B26	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	14.95	15.00	
CA 25A-25A-41A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B25	20	8900	1960	LTE B41	20	40620	2093	-	-	-	-	-	-	-	-	-	-	14.67	15.00	
CA 25A-41C	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B41	20	40620	2093	LTE B41	20	40620	2093	-	-	-	-	-	-	-	-	-	-	14.92	15.00	
CA 25A-46C	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B46	20	50065	5037.5	LTE B46	20	50067	5017.7	-	-	-	-	-	-	-	-	-	-	14.91	15.00	
CA 25A-25A-41C	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B25	20	8900	1960	LTE B41	20	40620	2093	LTE B41	20	40620	2093	-	-	-	-	-	-	-	14.42	15.00
CA 25A-46C	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B46	20	50065	5037.5	LTE B46	20	50067	5017.7	LTE B46	20	50065	5037.5	-	-	-	-	-	-	14.91	15.00	
CA 25A-25A-41D	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B25	20	8900	1960	LTE B41	20	40620	2093	LTE B41	20	40620	2093	-	-	-	-	-	-	-	14.49	15.00

1.3.9 LTE Band 30 as PCC

Table 9
Output Powers – Ant 2A

Combination	PCC Band	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power		
		PCC BW [MHz]	PCC [UL] Ch	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]			
CA 3C-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B2	10	707	1940.2	-	-	-	-	-	-	-	-	-	-	13.59	13.60	
CA 2A-2A-30A-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B2	10	700	1940	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	13.48	13.60
CA 4A-4A-30A-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B4	10	2175	2132.5	LTE B4	10	2360	2150	LTE B5	10	2625	881.5	-	-	-	-	-	-	-	13.55	13.60
CA 4A-4A-12A-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B4	10	2175	2132.5	LTE B4	10	2360	2150	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	13.40	13.60
CA 2A-4A-30A-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B4	10	2175	2132.5	LTE B5	10	2625	881.5	-	-	-	-	-	-	-	13.56	13.60
CA 2A-4A-12A-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	13.57	13.60
CA 2A-4A-25A-30A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B4	10	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	13.40	13.60
CA 2A-25A-30A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B29	10	9715	722.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	13.59	13.60
CA 5B-30A-66A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B5	10	2525	881.5	LTE B5	10	2453	874.3	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	13.45	13.60	
CA 2A-2A-30A-30A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B2	10	700	1940	LTE B5	10	2625	881.5	LTE B66	20	66786	2145	-	-	13.47	13.60	
CA 2A-2A-12A-30A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B2	10	700	1940	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	-	-	13.48	13.60	
CA 2A-2A-1A-30A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B2	10	700	1940	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	13.57	13.60	
CA 2A-2A-30A-66A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B5	10	2625	881.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	13.40	13.60	
CA 2A-5B-30A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B5	10	2525	881.5	LTE B5	10	2453	874.3	LTE B66	20	66786	2145	-	-	13.48	13.60	
CA 2A-12A-30A-66A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	13.57	13.60	
CA 2A-1A-30A-66A-66A	LTE B30	10	27710	2310	16QAM	1	25	9820	2395	LTE B2	10	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	13.56	13.60	

1.3.10 LTE Band 7 as PCC

Table 10
Output Powers – Ant 4A

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power			
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]			
CA 7B	LTE B7	15	20825	2507.5	64QAM	1	74	2025	2527.5	LTE B7	5	2018	2036.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.87		
CA 5A-7A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.16	14.57	
CA 7A-25A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B26	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.58	14.57	
CA 7A-46A (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B46	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.13	14.57	
CA 4A-4A-7A (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B4	10	2175	2132.5	LTE B4	10	2290	2150	-	-	-	-	-	-	-	-	-	-	-	14.49	14.57
CA 5A-7A-7A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2690	2630	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	14.15	14.57
CA 5A-7C	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	14.58	14.57
CA 7A-7A-25A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2690	2630	LTE B29	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	14.20	14.57
CA 7A-46C (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B46	20	50065	5037.5	LTE B46	20	50067	5017.7	-	-	-	-	-	-	-	-	-	-	-	14.48	14.57
CA 7C-46A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B46	20	50065	5037.5	-	-	-	-	-	-	-	-	-	-	-	14.18	14.57
CA 7A-46D (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B46	20	50065	5037.5	LTE B46	20	50067	5017.7	LTE B46	20	50063	5017.7	-	-	-	-	-	-	-	14.13	14.57
CA 7C-86C	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B46	20	50065	5037.5	LTE B46	20	50067	5017.7	-	-	-	-	-	-	-	14.13	14.57
CA 2A-4A-7A-7A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2690	2630	LTE B2	10	900	1960	LTE B4	10	2175	2132.5	-	-	-	-	-	-	-	14.47	14.57
CA 2A-4A-7C	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B2	10	900	1960	LTE B4	10	2175	2132.5	-	-	-	-	-	-	-	14.41	14.57
CA 2A-4A-7A-12A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2690	2630	LTE B4	10	2175	2132.5	LTE B4	10	2175	2132.5	-	-	-	-	-	-	-	14.49	14.57
CA 2A-7A-46A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2690	2630	LTE B29	10	8865	876.5	LTE B46	20	50065	5037.5	-	-	-	-	-	-	-	14.17	14.57
CA 2A-7A-12A-56A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2690	2630	LTE B4	10	2175	2132.5	LTE B46	20	50065	5037.5	LTE B46	20	50063	5017.7	-	-	14.49	14.57	
CA 7A-7A-46C	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	LTE B46	20	50067	5017.7	LTE B46	20	50063	5017.7	-	-	-	-	-	-	-	14.30	14.57

1.3.11

LTE Band 41 as PCC

Table 11
Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC				PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq [MHz]	SCC 1			SCC 2			SCC 3			SCC 4			LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
			PCC (DL) Ch	PCC (UL) Freq [MHz]	Mod.	PCC UL RB				SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]			
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	16.82	16.80	
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B5	10	25275	881.5	-	-	-	-	-	-	-	-	16.82	16.80	
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B26	10	8895	876.5	-	-	-	-	-	-	-	-	16.82	16.80	
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	16.80	16.80	
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41490	2680	-	-	-	-	16.80	16.80	
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B26	20	8895	1862.5	LTE B26	20	8890	1885	-	-	-	-	16.80	16.80	
CA 26A-26A-41A	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B26	20	8895	1862.5	LTE B26	20	8890	1885	-	-	-	-	16.80	16.80	
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B26	20	8895	1862.5	-	-	-	-	16.80	16.80	
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B26	10	8895	876.5	-	-	-	-	16.80	16.80	
CA 26A-41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B26	20	8895	1862.5	LTE B41	20	40344	2565.4	-	16.72	16.80
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	16.72	16.80
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	16.77	16.80
CA 41C-41C	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	16.77	16.80
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B26	20	8895	1862.5	LTE B26	20	8890	1885	-	16.80	16.80
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	16.70	16.80
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	16.74	16.80
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	16.82	16.80
	LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B26	20	8895	1885	-	16.82	16.80

1.3.12

LTE Band 41 PC2 as PCC

Table 12
Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC 2				SCC 3				SCC 4				Power			
			PCC (DL) Ch	PCC (UL) Freq [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 41A-41A (1)	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	16.79	16.80
CA 5A-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B5	10	25275	881.5	-	-	-	-	-	-	-	-	-	-	-	-	16.78	16.80
CA 26A-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B26	10	8895	876.5	-	-	-	-	-	-	-	-	-	-	-	-	16.79	16.80
CA 41A-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	16.79	16.80
CA 41C-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	16.79	16.80
CA 26A-26A-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B26	20	8895	1862.5	LTE B26	20	8890	1885	-	-	-	-	-	-	-	-	16.80	16.80
CA 26A-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B26	20	8895	1862.5	-	-	-	-	-	-	-	-	16.80	16.80
CA 26A-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B26	10	8895	876.5	-	-	-	-	-	-	-	-	16.79	16.80
CA 41E	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4	-	-	-	-	16.79	16.80
CA 41A-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	40344	2565.4	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	16.79	16.80
CA 41D-41A	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41490	2680	-	-	-	-	16.77	16.80
CA 41C-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	16.79	16.80
CA 26A-26A-41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B26	20	8895	1862.5	LTE B26	20	8890	1885	-	-	-	-	16.80	16.80
CA 41C-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41292	2660.2	-	-	-	-	16.74	16.80
CA 26A-26A-41D	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B26	20	8895	1885	-	-	-	-	16.80	16.80

1.3.13

LTE Band 48 as PCC

Table 13
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC				PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			SCC 2			SCC 3			SCC 4			SCC 5			LTE Tx Power (dBm)	LTE Single Carrier Power (dBm)
			PCC (DL) Ch	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB				SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel		
CA 5A-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B5	10	2520	880.5	-	-	-	-	-	-	-	-	-	-	17.14	17.40	
CA 2A-48A-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B2	20	880	1880	-	-	-	-	-	-	17.12	17.40	
CA 48C-48A-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 5A-48A-48A-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 5A-48A-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 48C-48A-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B2	20	880	1880	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680	LTE B48	20	56840	3680	-	-	-	-	-	-	17.12	17.40	
CA 2A-48C-48A	LTE B48	20	55770	3603.3	64QAM	1	0	55770	3603.3	LTE B48	20	56840	3680													

1.4 DL CA with DL 4x4 MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 1.2 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 14
Output Powers – Ant 3

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Max Allowed Power [dBm]
48	20	55773	3603.3	64QAM	1	99	17.46	17.44	17.50

Table 15
Output Powers – Ant 2A

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Max Allowed Power [dBm]
25	20	26140	1860	64QAM	1	99	15.00	15.00	15.00
30	10	27710	2310	16QAM	1	25	13.61	13.60	14.00

Table 16
Output Powers – Ant 2B

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Max Allowed Power [dBm]
66	20	132322	1745	64QAM	1	0	15.04	15.05	15.10

FCC ID: BCGA2069	 PCTEST Ready to test your product	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/18/2019-1/28/2020	DUT Type: Tablet Device		APPENDIX F: Page 9 of 16

Output Powers – Ant 4A

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Max Allowed Power [dBm]
7	20	21350	2560	QPSK	1	0	14.59	14.57	14.60
41	20	39750	2506	QPSK	1	0	16.90	16.90	16.90
41 PC2	20	39750	2506	QPSK	1	0	16.90	16.90	16.90

1.4.2

LTE Band 71 as PCC

Table 18
Output Powers – Ant 3

Combination	PCC Band	PCC										SSC 1				SSC 2				SSC 3				Power								
		PCC BW [MHz]	PCC (UL) Ch. Freq. [MHz]	Mod.	PCC UL RB	PCC UL off Offset	PCC (DL) Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) Ch. Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)										
CA [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	21.00	23.00							
CA [2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	10	2350	2132.5	4x4	-	-	-	21.00	23.00							
CA [2A]-[2A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	21.00	23.00
CA [2A]-[6A]-[6A]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	23.00	23.00
CA [2A]-[6C]-71A	LTE B71	20	133297	680.5	QPSK	1	0	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	22.99	23.00

1.4.3

LTE Band 12 as PCC

Table 19
Output Powers – Ant 3

Combination	PCB Band	PC1					DC1 = 1					SC1 = 2					SC2 = 3					SC3 = 4					SC4 = 5					Power	
		PCB MHz	PCF (U/L) Freq. (MHz)	Mod.	PCF U/L RB	PCF U/L RB Offset	PC1 (U/L) Freq. (MHz)	DC Int. Config.	SCB Band	SCC (U/L) Freq. (MHz)	SCC (U/L) Ch.	DC Int. Config.	SCB Band	SCC (U/L) Freq. (MHz)	SCC (U/L) Ch.	DC Int. Config.	SCB Band	SCC (U/L) Freq. (MHz)	SCC (U/L) Ch.	DC Int. Config.	SCB Band	SCC (U/L) Freq. (MHz)	SCC (U/L) Ch.	DC Int. Config.	SCB Band	SCC (U/L) Freq. (MHz)	SCC (U/L) Ch.	DC Int. Config.	LT Tx Power (dBm)	LT Single Carrier Tx Power (dBm)			
CA (2A) 32A (1)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (4A) 12A (1)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	2175	2123.5	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (4A) 32A (1)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	2175	2123.5	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (2)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (3)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (4)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (5)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (6)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (7)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (8)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (9)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (10)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (11)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (12)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (13)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (14)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (15)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (16)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (17)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (18)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (19)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (20)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (21)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (22)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (23)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (24)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (25)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (26)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (27)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (28)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (29)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (30)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (31)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (32)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (33)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (34)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (35)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (36)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (37)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (38)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (39)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (40)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (41)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (42)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (43)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (44)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (45)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (46)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (47)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (48)	LTE B12	-	23105	7315	64QAM	-	1	24	5105	7415	262	LTE B12	20	900	1960	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.77	
CA (2A) 32A (49)	LTE B12	-	23105	7315																													

1.4.4

LTE Band 13 as PCC

Table 20
Output Powers – Ant 3

Combination	PCB Band	PCB BW [MHz]	PCF [U/L]	PCF [U/L] Freq. [MHz]	PCC				SCC1				SCC2				SCC3				SCC4				LTE Tx Power with CCs (Enb) [dBm]	LTE Single Carrier Tx Power [dBm]	
					Mod.	RB	PCUs In RB	PCUs In RB Offset	PCB [U/L]	PCD [U/L] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [U/L] Ch. Conf.	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [U/L] Ch. Conf.	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [U/L] Ch. Conf.	DL Ant. Config.	SCC Band			SCC BW [MHz]
CA [24-44]-13A	LTE B13	10	52320	782	64QAM	1	0	52320	751	2x2	LTE B4	20	2175	212.5	4x4	LTE B4	20	2250	215.0	4x4	LTE B4	20	2250	215.0	4x4	21.46	21.46
CA [24-44]-13A	LTE B13	10	52320	782	64QAM	1	0	52320	751	2x2	LTE B2	20	900	196.0	4x4	LTE B4	20	2175	212.5	4x4	LTE B4	20	2175	212.5	4x4	21.46	21.46
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B2	20	900	196.0	4x4	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2	52320	751	2x2	LTE B4	20	5065	517.5	2x2	LTE B4	20	5065	517.5	2x2	-	-	-	-	-	21.46	21.80
CA [24-44]-13A-46A	LTE B13	5	52320	782	64QAM	1	2																				

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LTE Band 14 as PCC

Table 21
Output Powers – Ant 3

[illegible]

LTE Band 5 as PCC

Table 22
Output Powers – Ant 3

[illegible]

LTE Band 26 as PCC

Table 23
Output Powers – Ant 3

Combination	PCC Band	PCC									SCC 1				SCC 2				Power			
		PCC BW [MHz]	PCC UL Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL#1 RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA {7A}-26A	LTE B26	10	26990	844	QPSK	25	12	8990	889	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	21.46	21.50
CA {25A}-26A	LTE B26	10	26990	844	QPSK	25	12	8990	889	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	21.49	21.50
CA {26A}-41A	LTE B26	10	26990	844	QPSK	25	12	8990	889	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	21.47	21.50
CA {7A}-{25A}-26A	LTE B26	10	26990	844	QPSK	25	12	8990	889	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	21.45	21.50
CA {25A}-{25A}-26A	LTE B26	5	27015	846.5	64QAM	1	0	9015	891.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	21.13	21.30
CA {26A}-41C	LTE B26	10	26990	844	QPSK	25	12	8990	889	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	21.46	21.50

FCC ID: BCGA2069	 PCTEST Passing the point of sale	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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