

APPENDIX A: SAR TEST DATA

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV004PQM6

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):

$f = 824.2$ MHz; $\sigma = 1.005$ S/m; $\epsilon_r = 53.243$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-19-2020; Ambient Temp: 20.4°C; Tissue Temp: 20.0°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

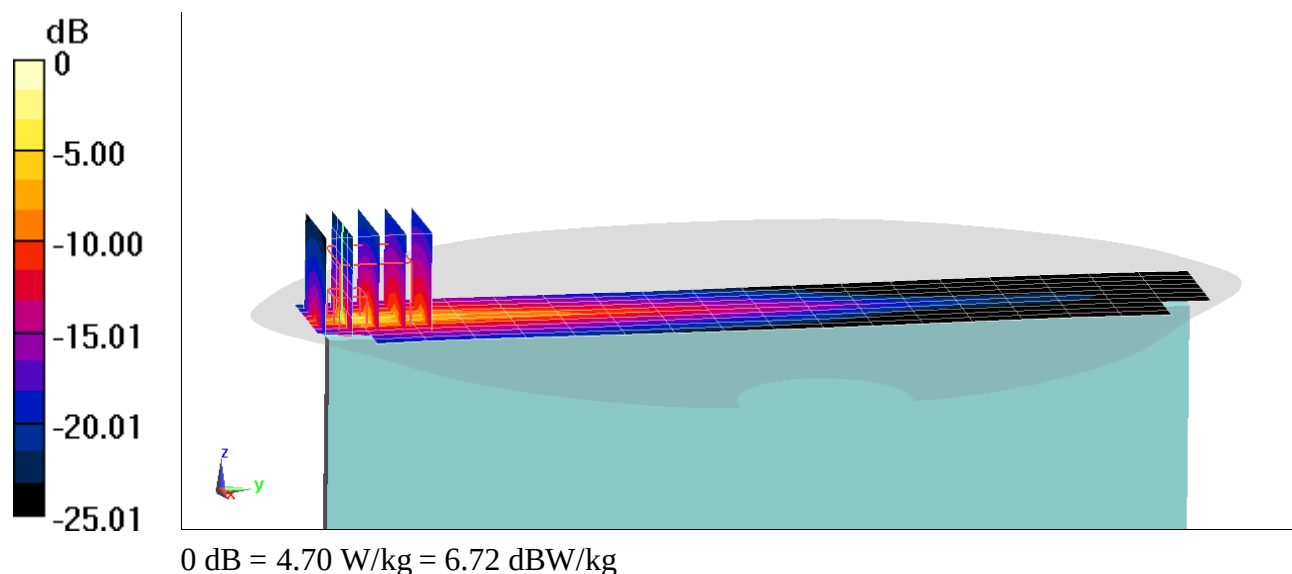
Area Scan (10x23x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 32.27 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 8.16 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.358 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV00LPQKX

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; $\sigma = 1.587$ S/m; $\epsilon_r = 51.584$; $\rho = 1000$ kg/m³

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) @ 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 2b, Body SAR, Back side, High.ch, 2 Tx Slots

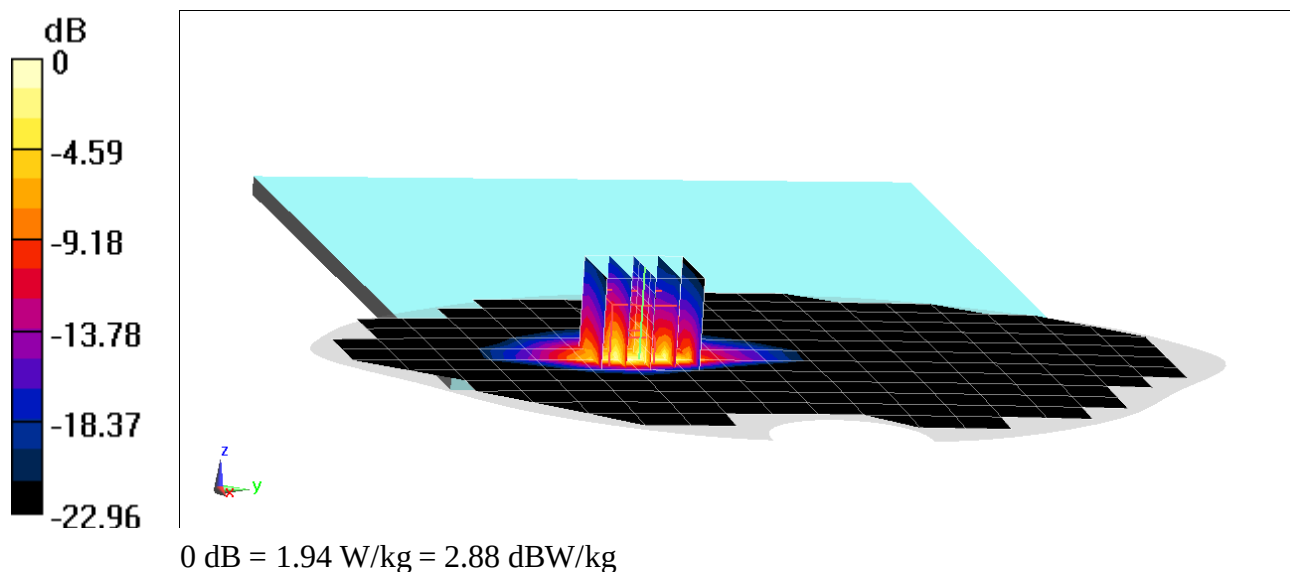
Area Scan (15x19x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan 1 (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.22 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.397 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV004PQM6

Communication System: UID 0, UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used (interpolated):

$f = 826.4$ MHz; $\sigma = 1.007$ S/m; $\epsilon_r = 53.225$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-19-2020; Ambient Temp: 20.4°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7427; ConvF(10.18, 10.18, 10.18) @ 826.4 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 850 Antenna 1, Body SAR, Left Edge, Low.ch

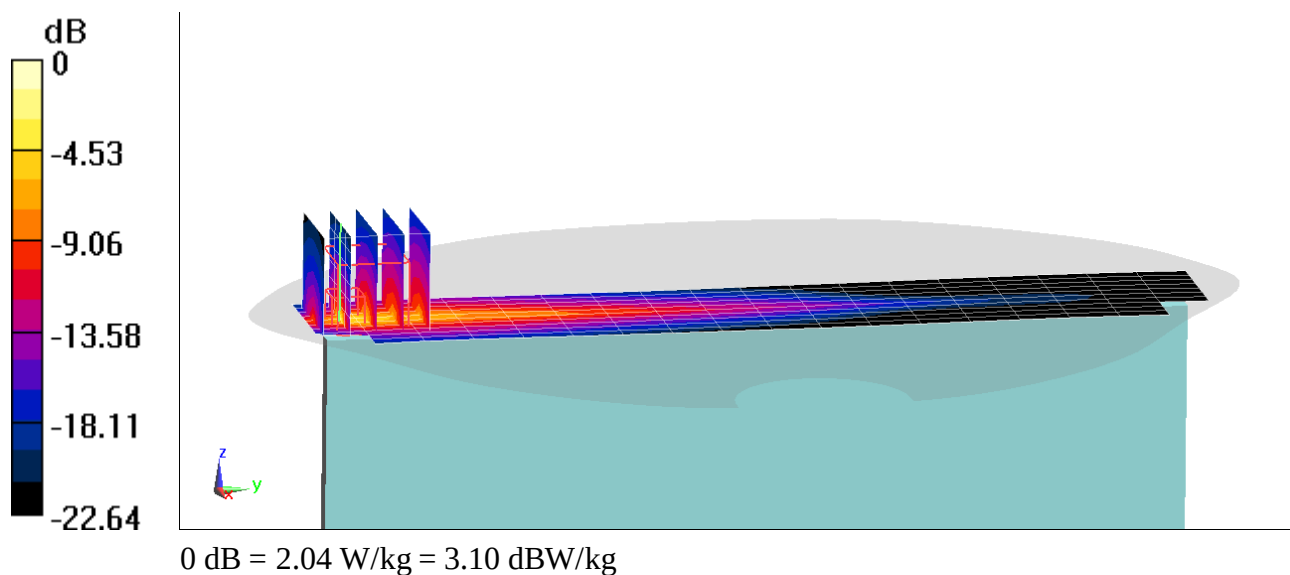
Area Scan (10x23x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 30.56 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 5.29 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.417 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV004P57G

Communication System: UID 0, UMTS; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1712.4 \text{ MHz}$; $\sigma = 1.48 \text{ S/m}$; $\epsilon_r = 51.879$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-23-2020; Ambient Temp: 23.0°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1712.4 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 2b, Body SAR, Back side, Low.ch

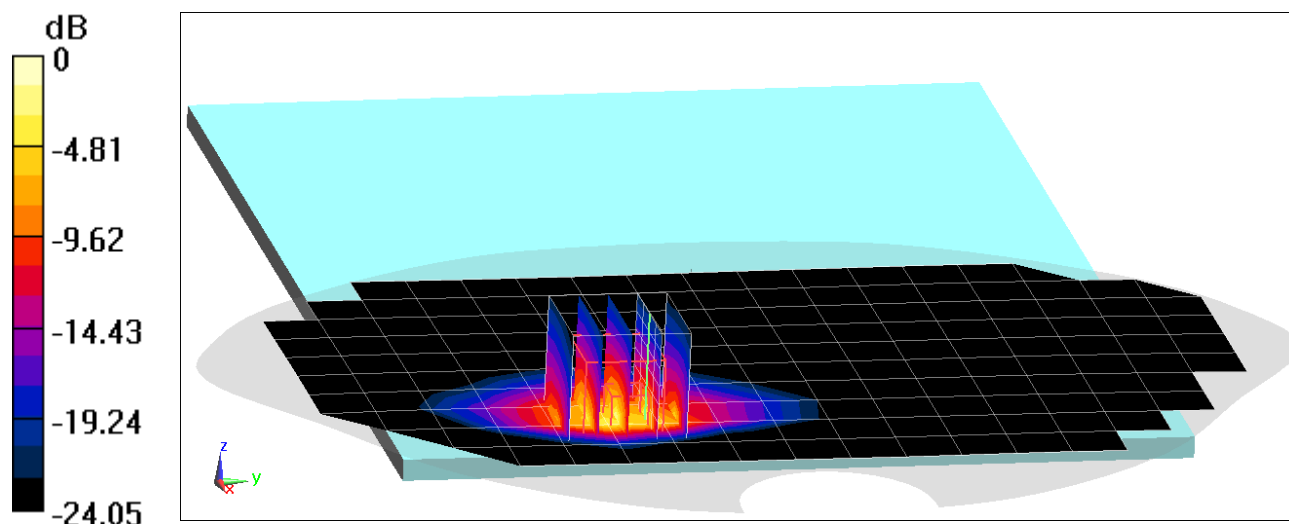
Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 27.89 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.425 W/kg



0 dB = 2.71 W/kg = 4.33 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV00WPQKX

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1907.6$ MHz; $\sigma = 1.585$ S/m; $\epsilon_r = 51.588$; $\rho = 1000$ kg/m³

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) @ 1907.6 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 2b, Body SAR, Back side, High.ch

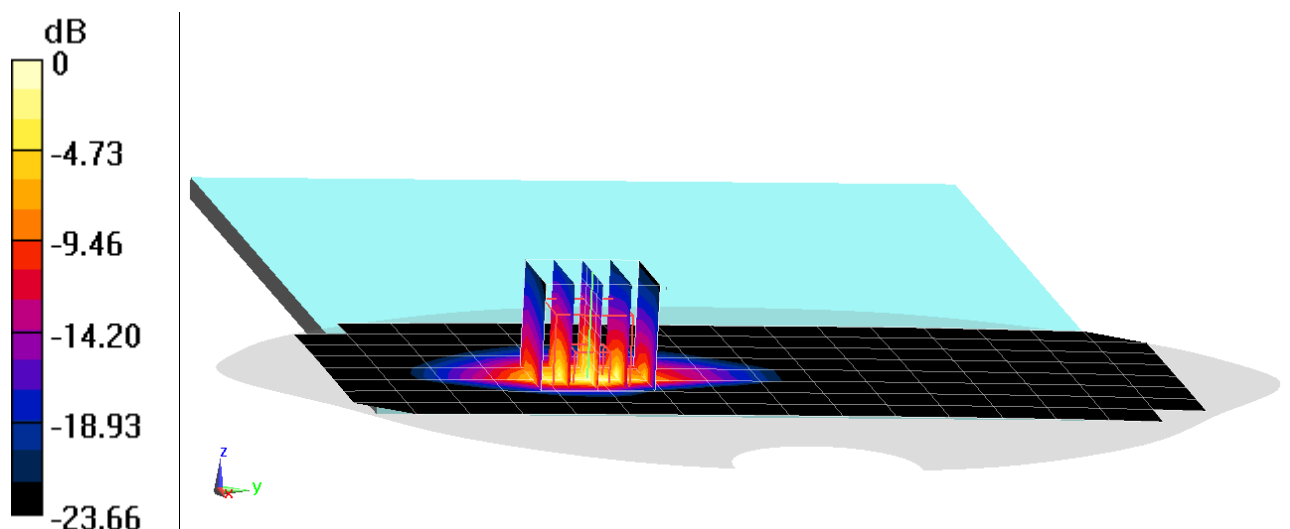
Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 27.82 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.457 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV01JPKX

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; $\sigma = 0.927$ S/m; $\epsilon_r = 54.761$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-18-2020; Ambient Temp: 21.1°C; Tissue Temp: 21.0°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**

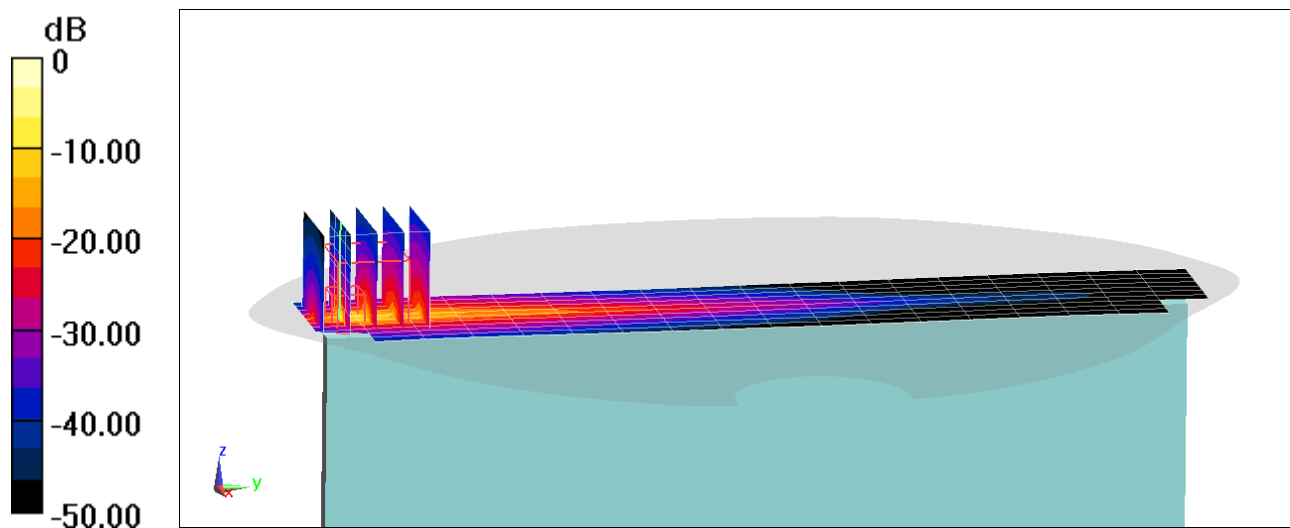
Area Scan for plot (11x21x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 35.99 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 8.23 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.326 W/kg



0 dB = 5.19 W/kg = 7.15 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV00WPQKX

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

Medium: 750 Body Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 1.006 \text{ S/m}$; $\epsilon_r = 53.906$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-18-2020; Ambient Temp: 21.1°C; Tissue Temp: 21.0°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 1, Body SAR, Left Edge, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

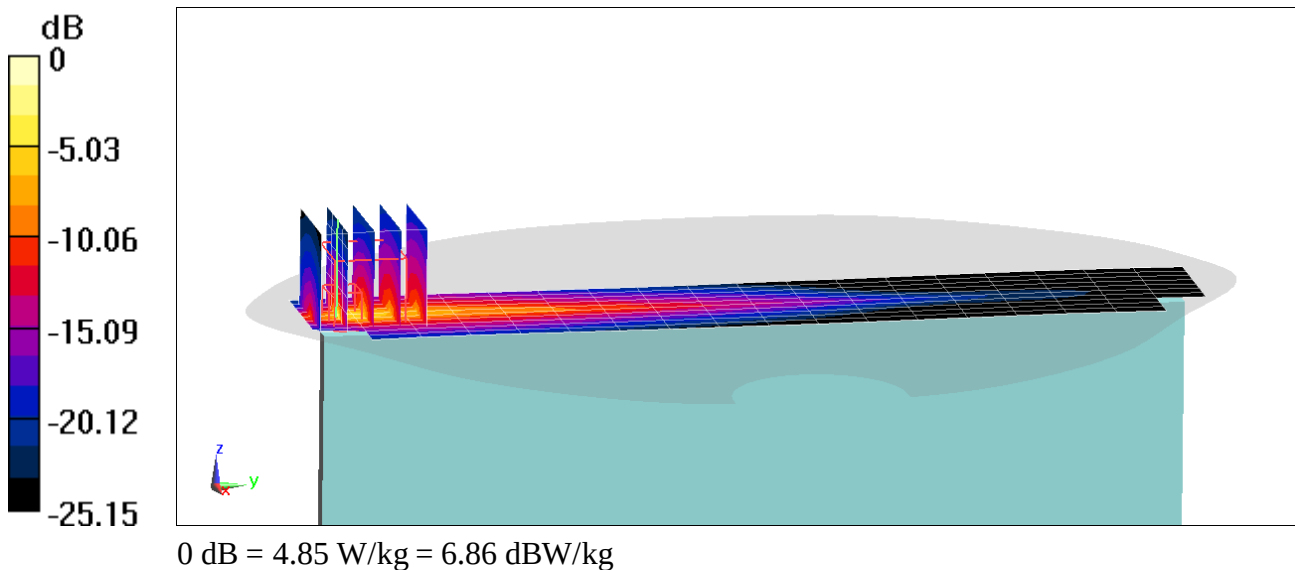
Area Scan (11x21x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 28.59 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 7.07 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.371 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV00WPQKX

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 836.5$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 54.528$; $\rho = 1000$ kg/m³

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**

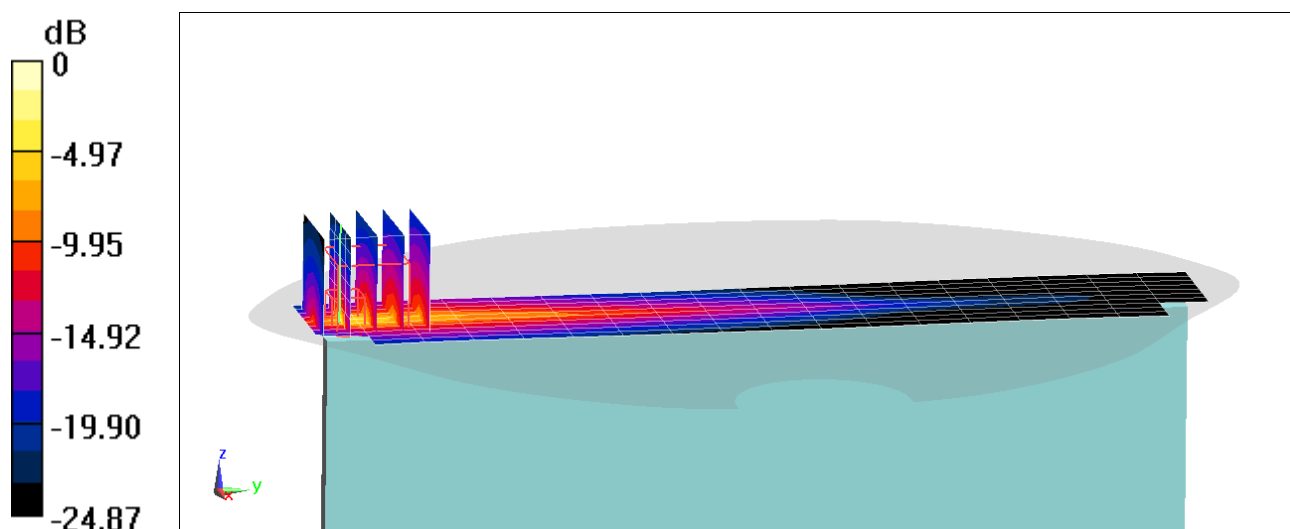
Area Scan (10x11x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 28.74 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 7.34 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.398 W/kg



0 dB = 4.96 W/kg = 6.95 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV002PQM6

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

Medium: 835 Body Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 53.289$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-19-2020; Ambient Temp: 20.4°C; Tissue Temp: 20.0°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**

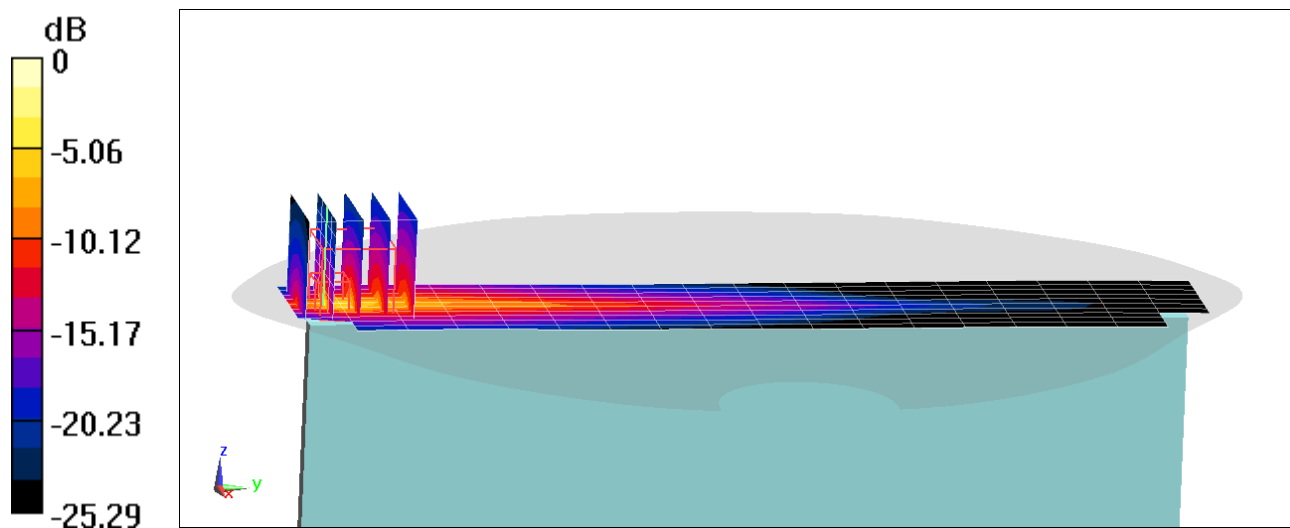
Area Scan (11x23x1): Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 28.99 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 7.81 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.396 W/kg



0 dB = 5.41 W/kg = 7.33 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT004P57G

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

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1732.5$ MHz; $\sigma = 1.468$ S/m; $\epsilon_r = 52.368$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-21-2020; Ambient Temp: 23.8°C; Tissue Temp: 18.4°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 2b, Body SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

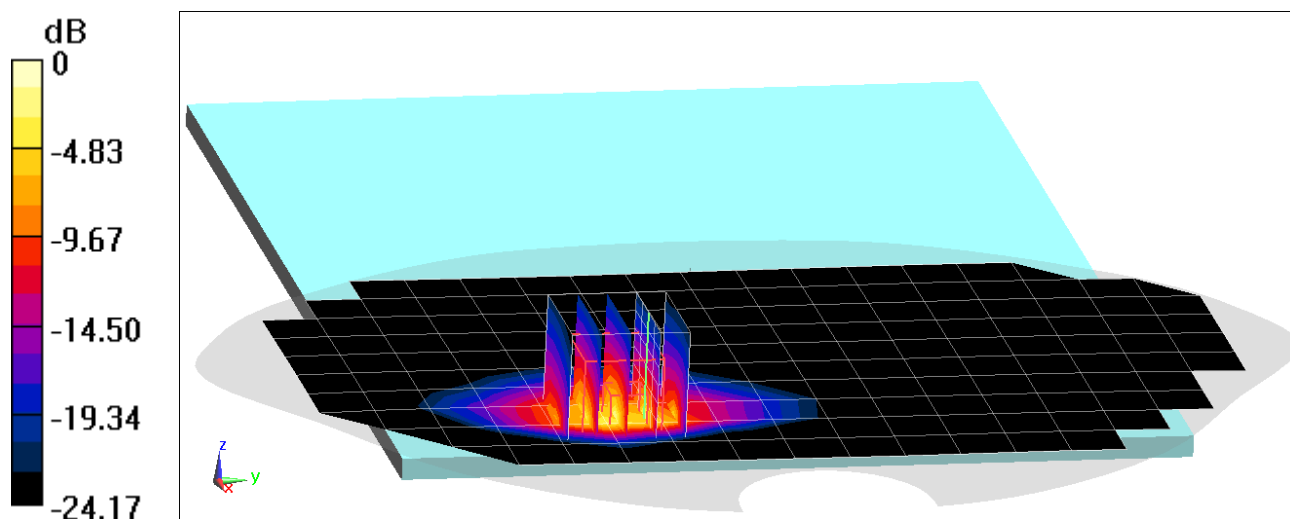
Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 28.67 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.432 W/kg



0 dB = 2.81 W/kg = 4.48 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT004P57G

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used (interpolated):

$f = 1720 \text{ MHz}$; $\sigma = 1.456 \text{ S/m}$; $\epsilon_r = 52.414$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-21-2020; Ambient Temp: 23.8°C; Tissue Temp: 18.4°C

Probe: EX3DV4 - SN7427; ConvF(8.14, 8.14, 8.14) @ 1720 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 2a, Body SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

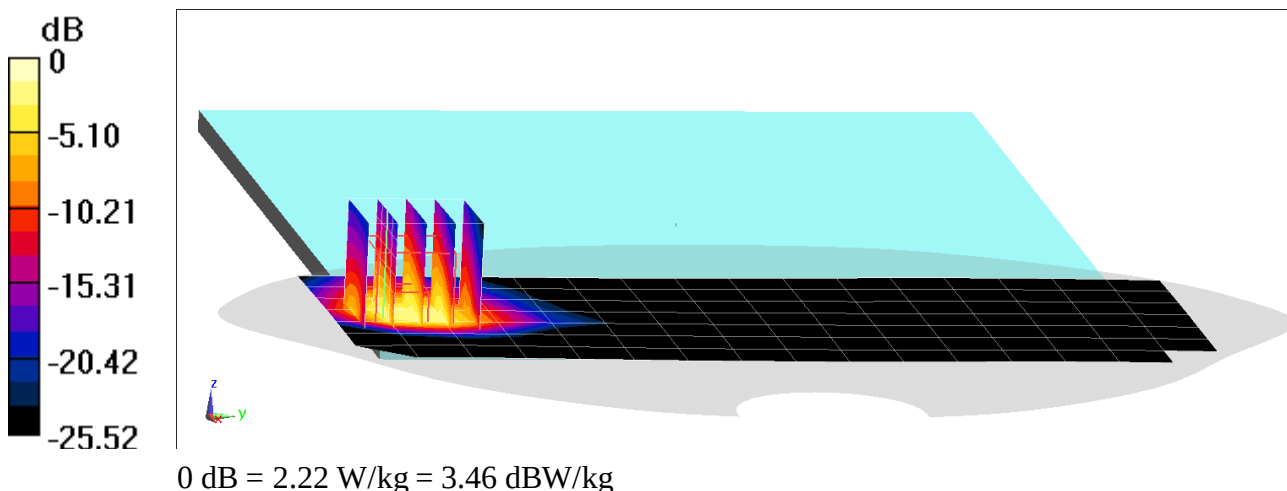
Area Scan (8x17x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 29.00 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.567 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT004P57G

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.573 \text{ S/m}$; $\epsilon_r = 52.835$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 19.5°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)

**Mode: LTE Band 2 (PCS) Antenna 2a, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

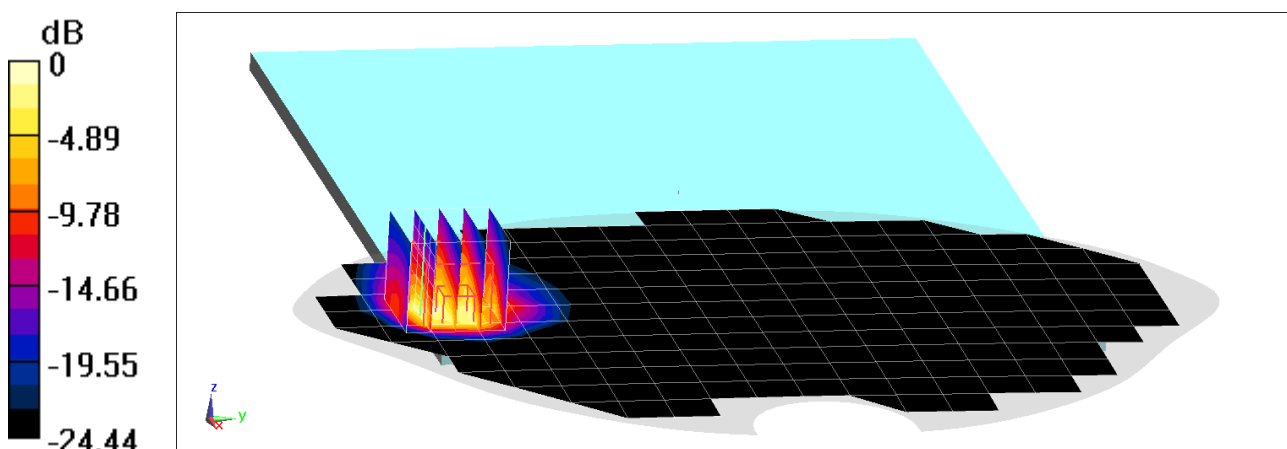
Area Scan (15x19x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 25.54 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.34 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.555 W/kg



0 dB = 2.18 W/kg = 3.38 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT004P57G

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

Medium: 1900 Body Medium parameters used (interpolated):

$f = 1905 \text{ MHz}$; $\sigma = 1.576 \text{ S/m}$; $\epsilon_r = 52.843$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 19.5°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 2a, Body SAR, Back side, High.ch,
20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset**

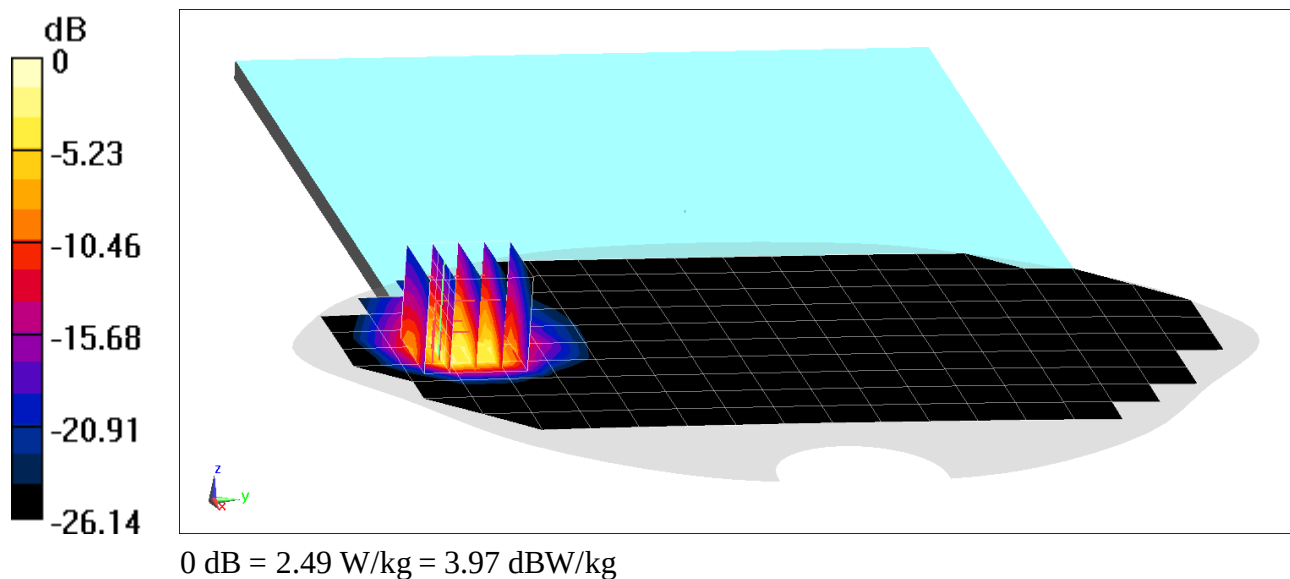
Area Scan (11x21x1): Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 26.08 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.76 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.512 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT002P57G

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

Medium: 2300 Body Medium parameters used:

$f = 2310 \text{ MHz}$; $\sigma = 1.849 \text{ S/m}$; $\epsilon_r = 51.56$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-05-2020; Ambient Temp: 21.0°C; Tissue Temp: 20.9°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 4b, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

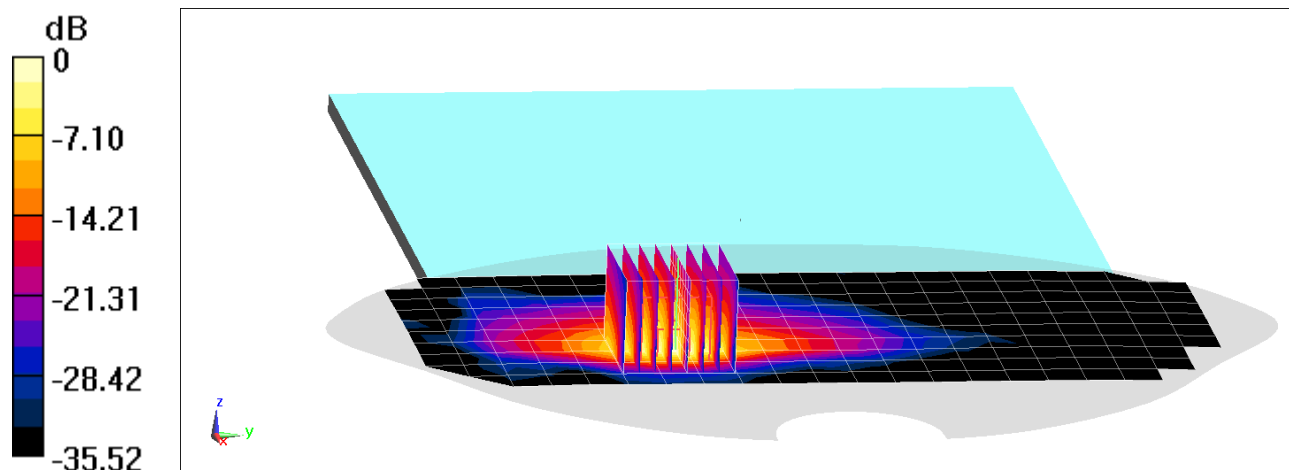
Area Scan (11x11x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 24.72 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.42 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.373 W/kg



PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT002P57G

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

Medium: 2450-2600 Body Medium parameters used (interpolated):

$f = 2535 \text{ MHz}$; $\sigma = 2.122 \text{ S/m}$; $\epsilon_r = 50.532$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-29-2020; Ambient Temp: 22.1°C; Tissue Temp: 20.1°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, 50 RB, 50 RB Offset**

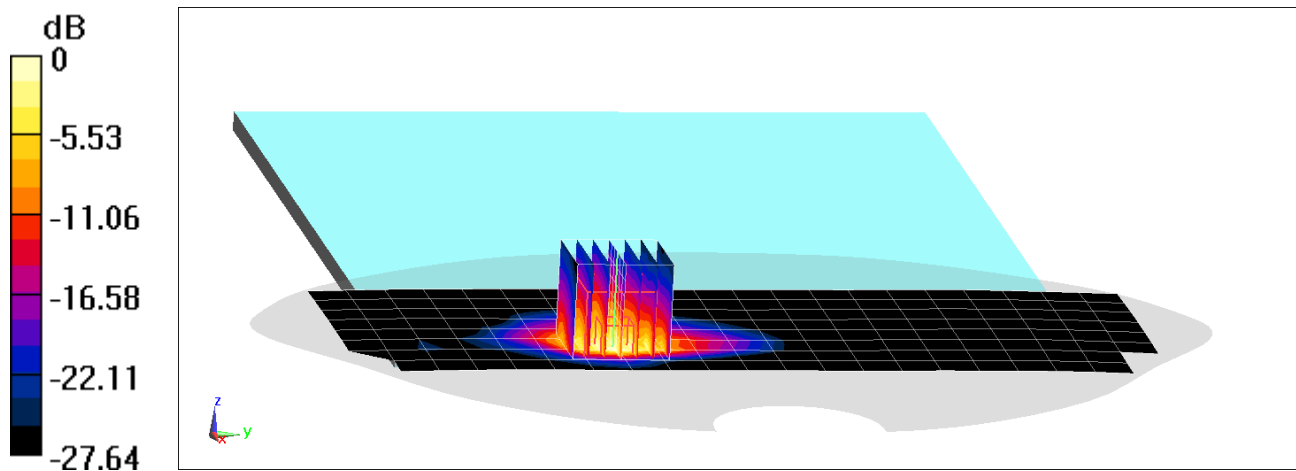
Area Scan (11x11x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 23.74 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.371 W/kg



0 dB = 2.18 W/kg = 3.38 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV00BPQKX

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2549.5 MHz; Duty Cycle: 1:1.58

Medium: 2450-2600 Body Medium parameters used:

$f = 2550$ MHz; $\sigma = 2.155$ S/m; $\epsilon_r = 50.683$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 02-04-2020; Ambient Temp: 22.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN3949; ConvF(7.69, 7.69, 7.69) @ 2549.5 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 4a, Body SAR, Back side, Low-Mid.ch,
20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset**

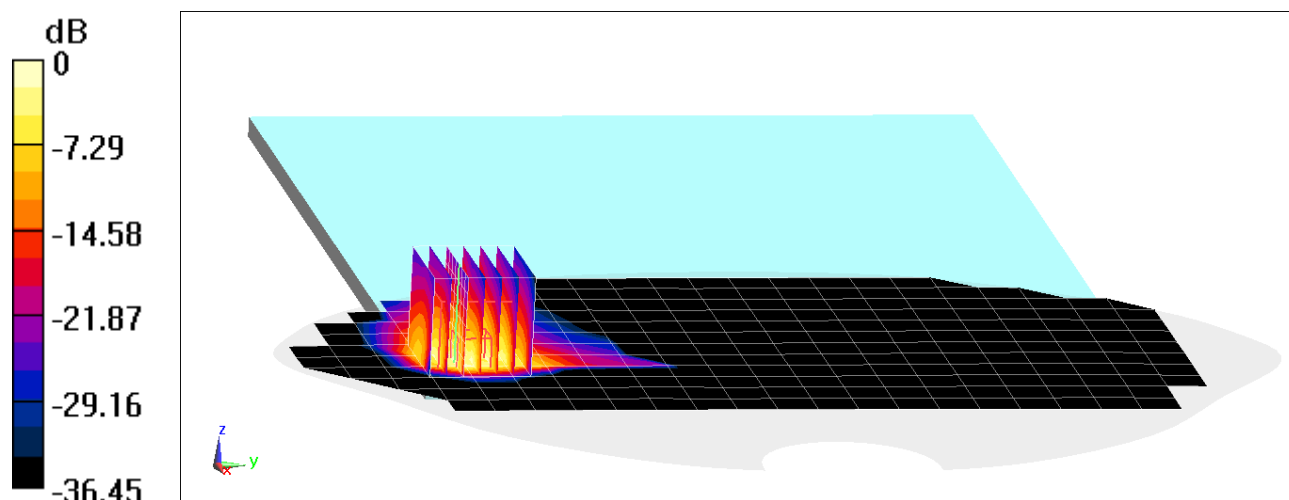
Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.05 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.483 W/kg



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

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZT001P57G

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 2b, Body SAR, Back side, Low-Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

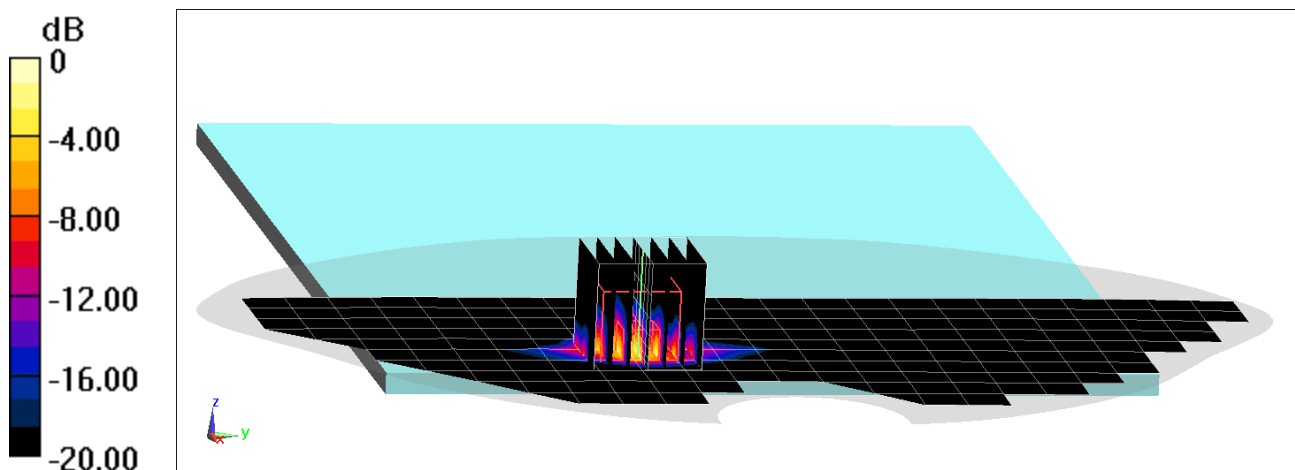
Area Scan (11x24x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 21.38 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 5.08 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.342 W/kg



0 dB = 3.28 W/kg = 5.16 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZR010P57F

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

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2412 \text{ MHz}$; $\sigma = 1.989 \text{ S/m}$; $\epsilon_r = 51.228$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 12-20-2019; Ambient Temp: 21.0°C; Tissue Temp: 20.0°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**

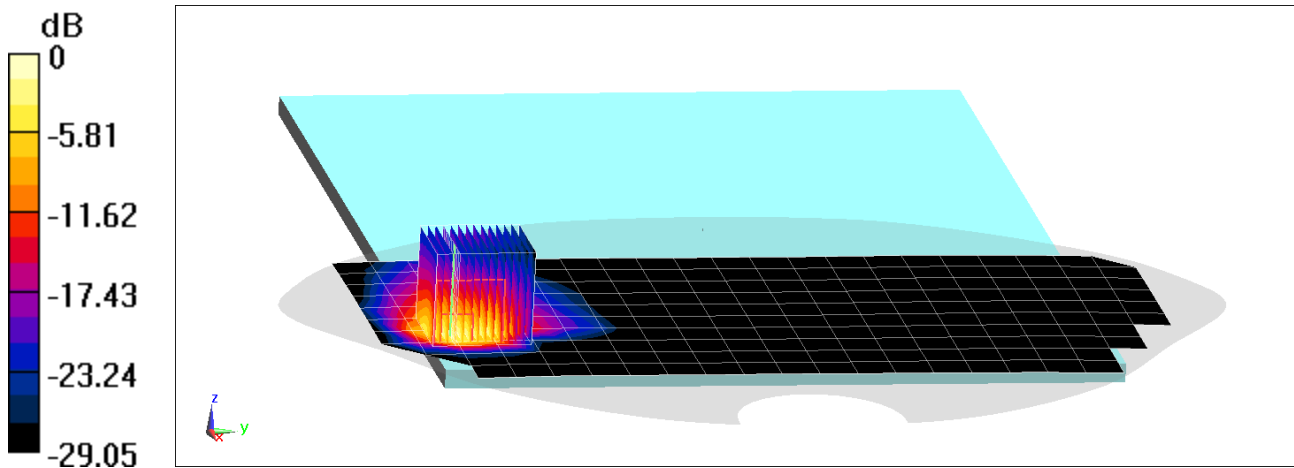
Area Scan (11x22x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 22.72 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.393 W/kg



0 dB = 2.19 W/kg = 3.40 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZV00LPQKX

Communication System: UID 0, _IEEE 802.11n; Frequency: 5230 MHz; Duty Cycle: 1:1

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

$f = 5230 \text{ MHz}$; $\sigma = 5.103 \text{ S/m}$; $\epsilon_r = 48.42$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.2°C

Probe: EX3DV4 - SN7491; ConvF(4.87, 4.87, 4.87) @ 5230 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 802.11n, 5GHz ANTlower Variant 1, U-NII-1, 40 MHz Bandwidth,
Body SAR, Ch 46, 13.5 Mbps, Right Edge**

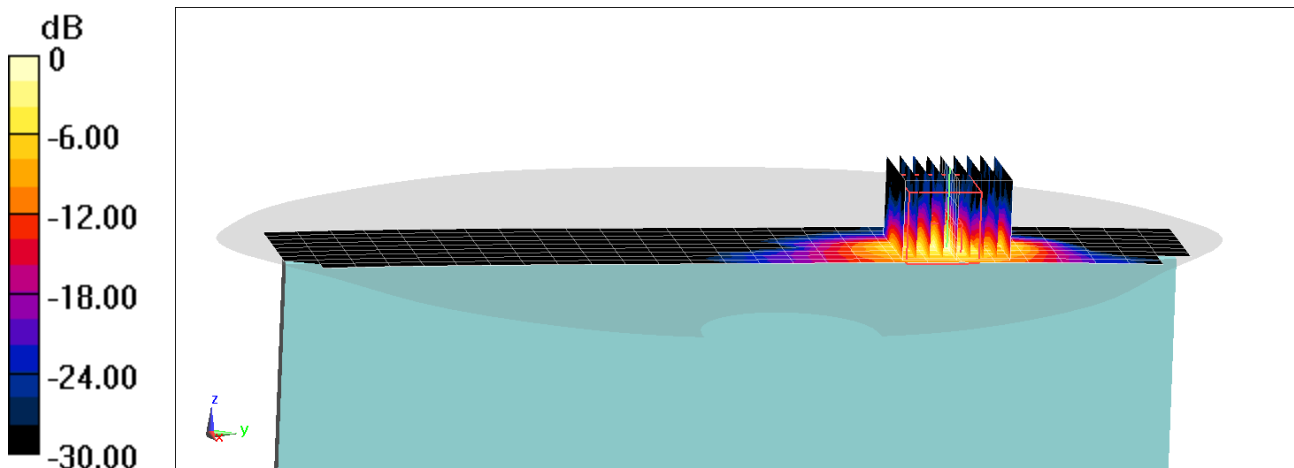
Area Scan (10x10x1): Measurement grid: dx=5mm, dy=10mm

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

Reference Value = 16.20 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 4.47 W/kg

SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.224 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg

PCTEST

DUT: BCGA2232; Type: Tablet Device; Serial: DLXZR010P57F

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2441 \text{ MHz}$; $\sigma = 1.937 \text{ S/m}$; $\epsilon_r = 50.89$; $\rho = 1000 \text{ kg/m}^3$

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) @ 2441 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 4a Variant 1, Body SAR, Ch 39, 1 Mbps, Back Side

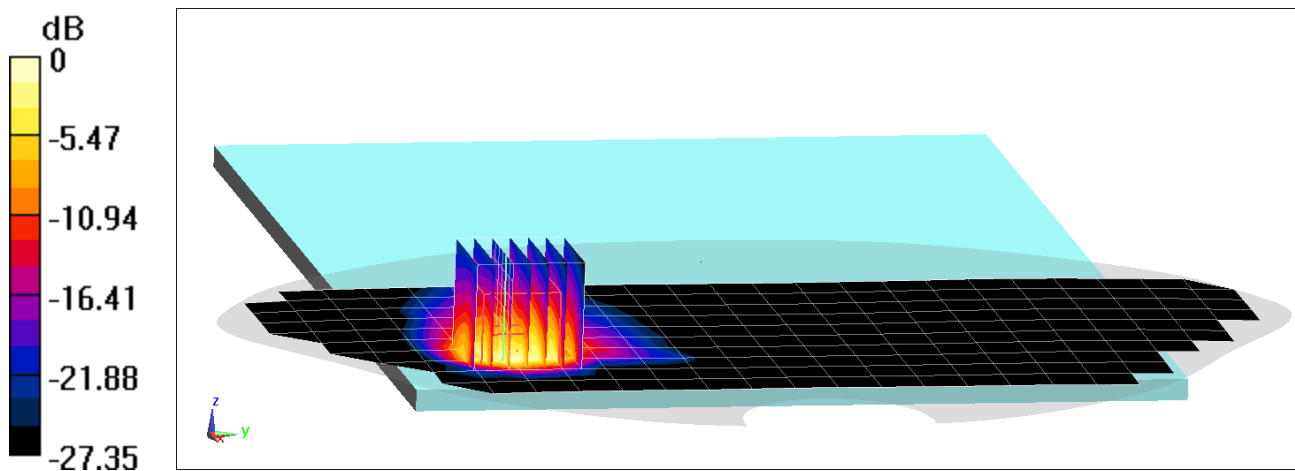
Area Scan (11x26x1): Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 21.33 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.497 W/kg



0 dB = 2.54 W/kg = 4.05 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

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

Medium: 750 Body Medium parameters used (interpolated):

$f = 750 \text{ MHz}$; $\sigma = 0.971 \text{ S/m}$; $\epsilon_r = 53.969$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-18-2020; Ambient Temp: 21.1°C; Tissue Temp: 21.0°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)

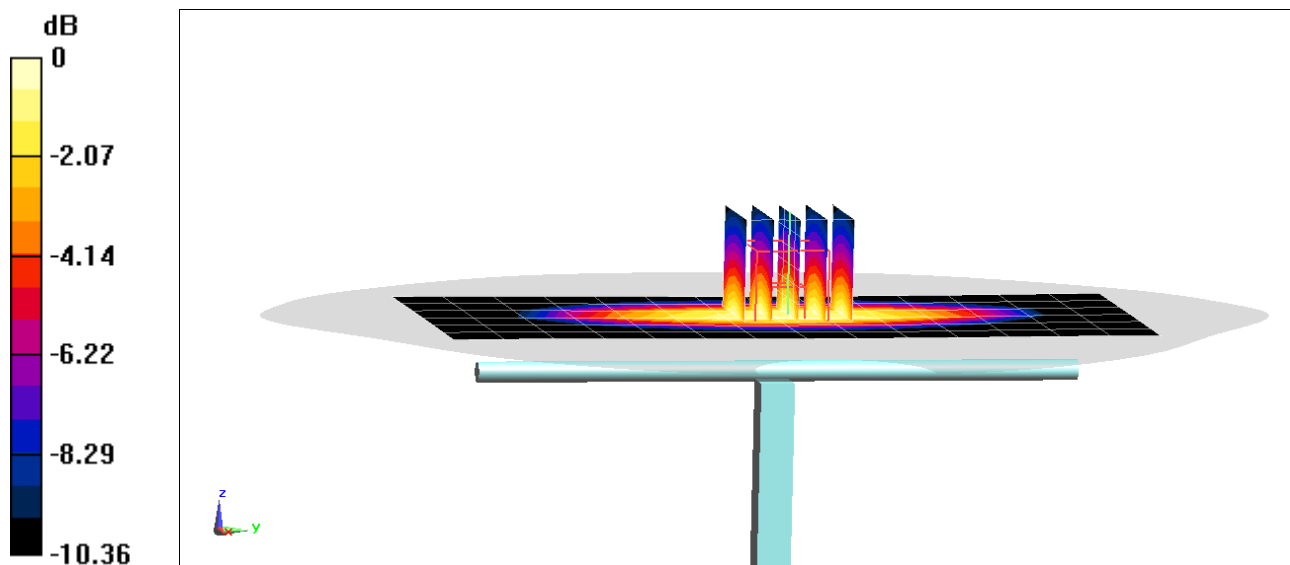
Area Scan (7x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 2.82 W/kg

SAR(1 g) = 1.83 W/kg; SAR(10 g) = 1.21 W/kg

Deviation(1 g) = 6.89%



0 dB = 2.47 W/kg = 3.93 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)

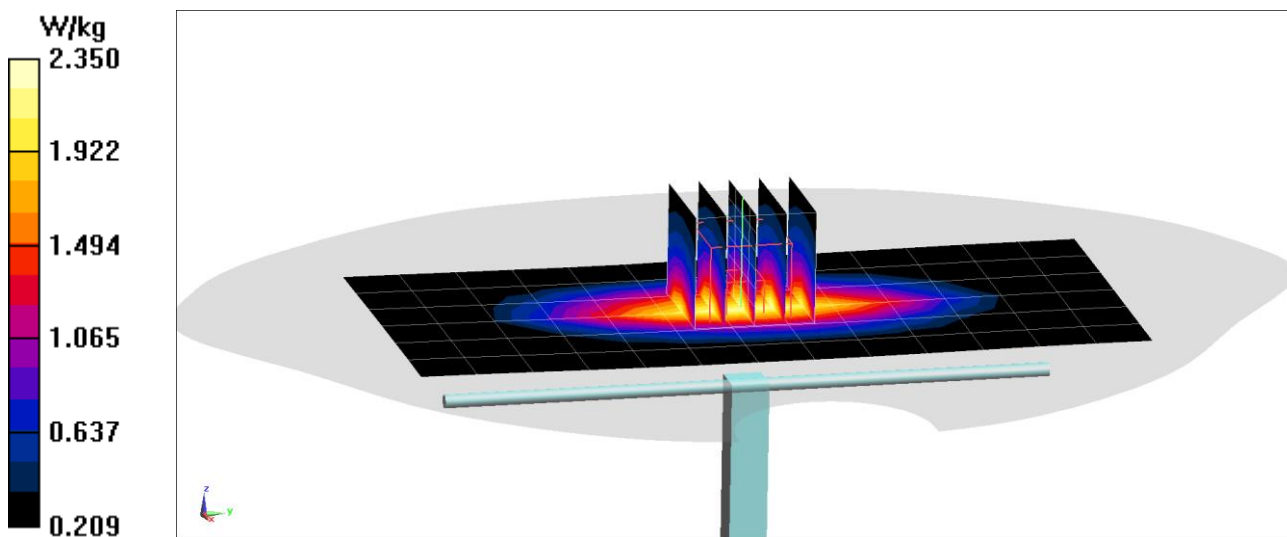
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

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 835 MHz; Type: D835V2; Serial: 4d040

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

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 1.015 \text{ S/m}$; $\epsilon_r = 53.152$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 01-19-2020; Ambient Temp: 20.4°C; Tissue Temp: 20.0°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)

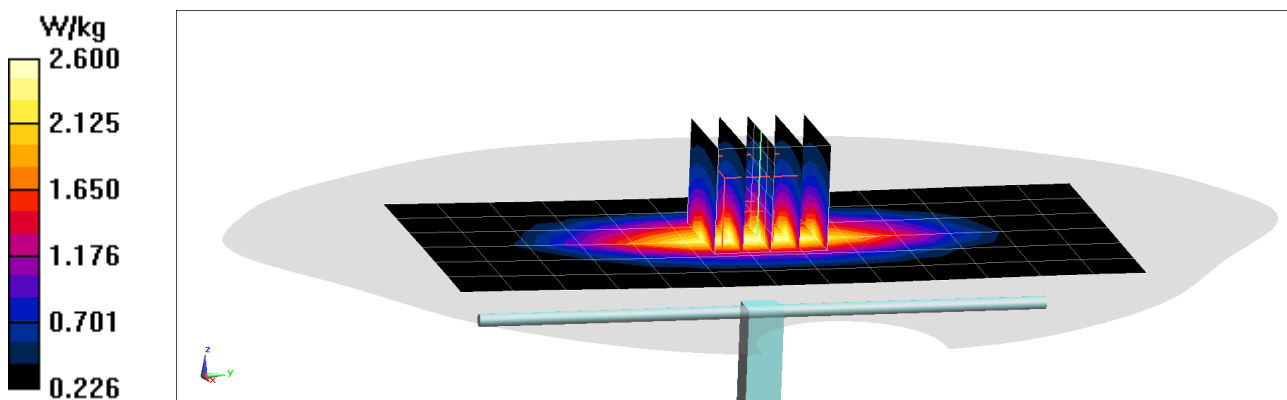
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 1.95 W/kg; SAR(10 g) = 1.28 W/kg

Deviation(1 g) = 2.31%



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:

$f = 1750 \text{ MHz}$; $\sigma = 1.484 \text{ S/m}$; $\epsilon_r = 52.302$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-21-2020; Ambient Temp: 23.8°C; Tissue Temp: 18.4°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)

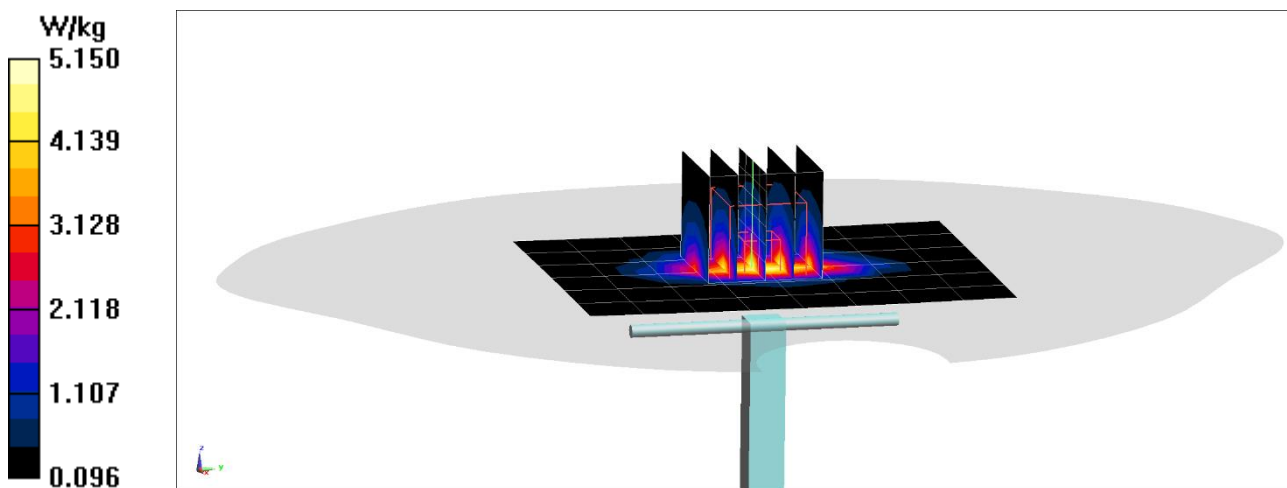
Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 6.07 W/kg

SAR(1 g) = 3.42 W/kg; SAR(10 g) = 1.82 W/kg

Deviation(1 g) = -7.82%



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:

$f = 1750 \text{ MHz}$; $\sigma = 1.514 \text{ S/m}$; $\epsilon_r = 51.756$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-23-2020; Ambient Temp: 23.0°C; Tissue Temp: 19.8°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)

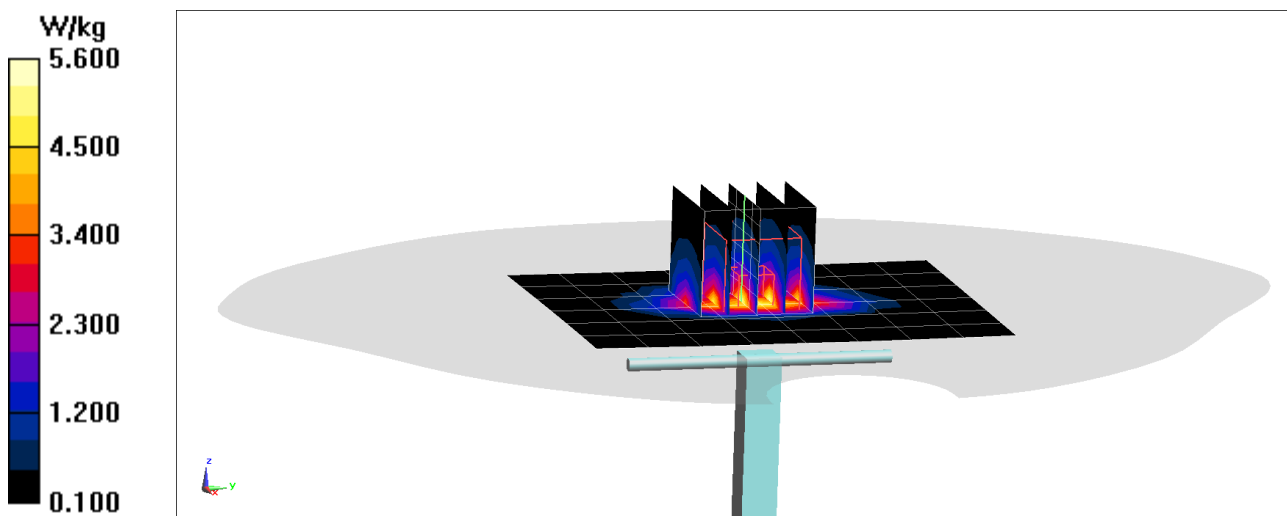
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.62 W/kg

SAR(1 g) = 3.7 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):

$f = 1900 \text{ MHz}$; $\sigma = 1.573 \text{ S/m}$; $\epsilon_r = 52.835$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-16-2020; Ambient Temp: 20.7°C; Tissue Temp: 19.5°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)

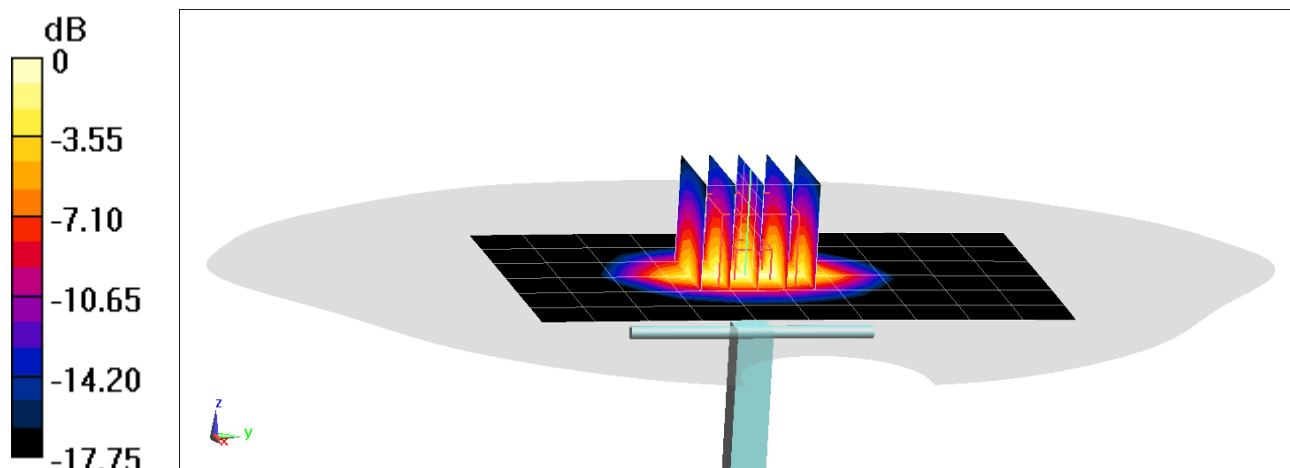
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 7.63 W/kg

SAR(1 g) = 4.18 W/kg; SAR(10 g) = 2.16 W/kg

Deviation(1 g) = 4.76%



0 dB = 6.46 W/kg = 8.10 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)

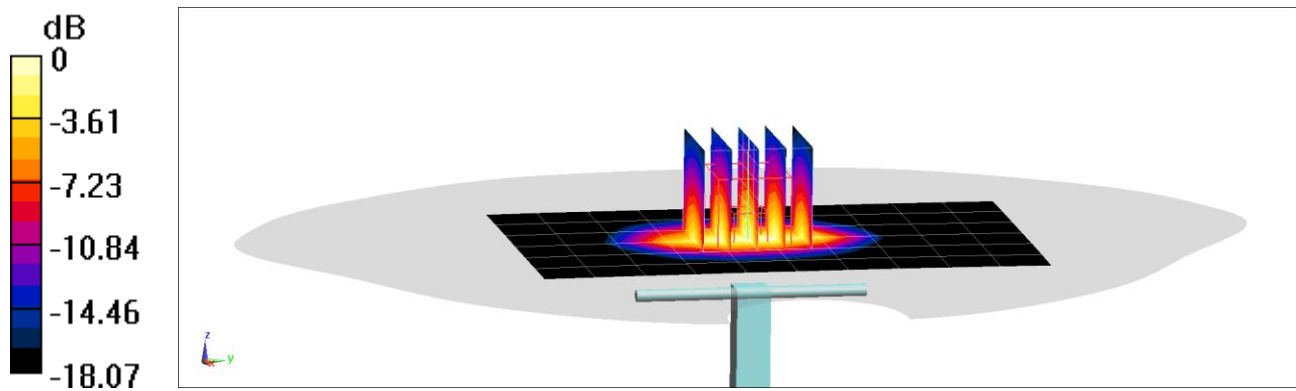
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.51 W/kg

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

Deviation(1 g) = 2.26%



0 dB = 6.36 W/kg = 8.03 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 Body Medium parameters used:

$f = 2300 \text{ MHz}$; $\sigma = 1.832 \text{ S/m}$; $\epsilon_r = 51.591$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 02-05-2020; Ambient Temp: 21.0°C; Tissue Temp: 20.9°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)

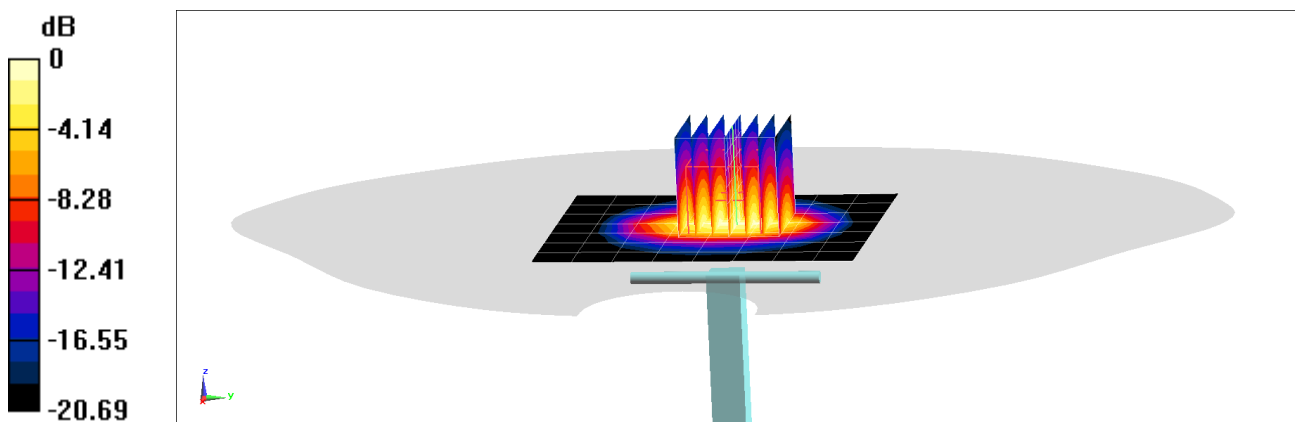
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 8.71 W/kg

SAR(1 g) = 4.43 W/kg; SAR(10 g) = 2.12 W/kg

Deviation(1 g) = -5.14%



0 dB = 7.18 W/kg = 8.56 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; $\sigma = 2.036$ S/m; $\epsilon_r = 51.076$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-20-2019; Ambient Temp: 21.0°C; Tissue Temp: 20.0°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)

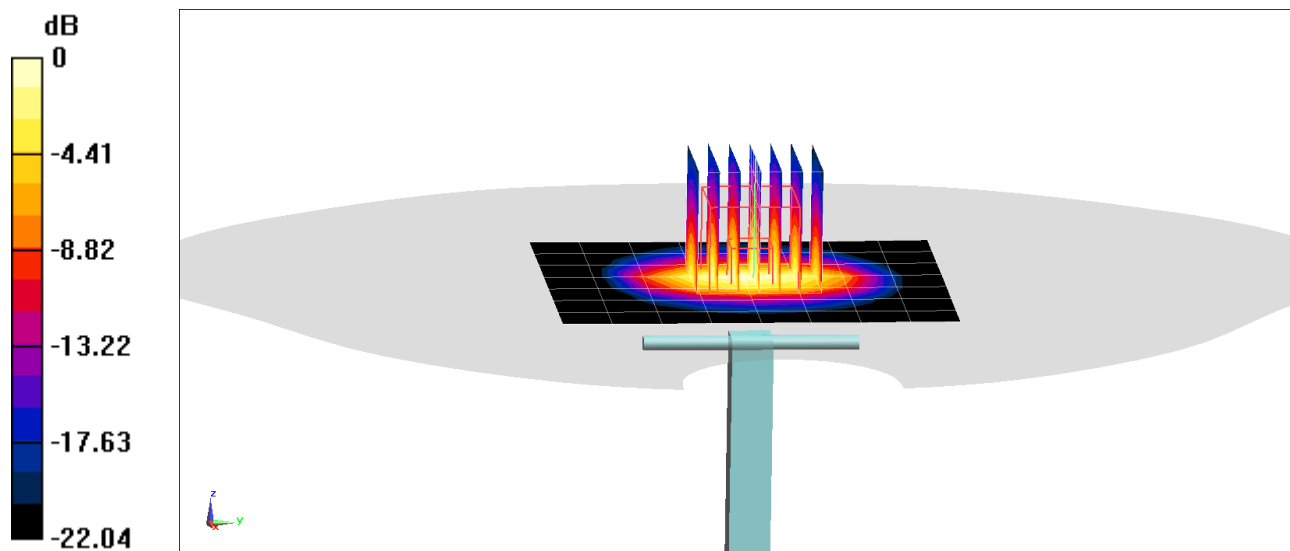
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.36 W/kg; SAR(10 g) = 2.48 W/kg

Deviation(1 g) = 5.51%



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:

$f = 2450 \text{ MHz}$; $\sigma = 1.948 \text{ S/m}$; $\epsilon_r = 50.877$; $\rho = 1000 \text{ kg/m}^3$

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)

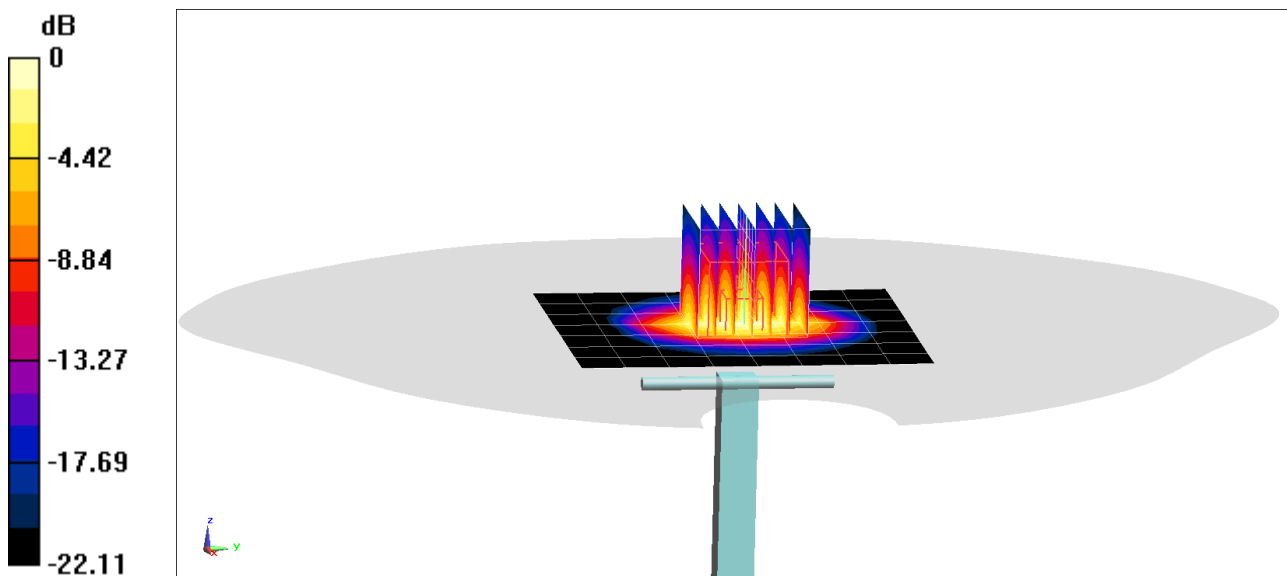
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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%



0 dB = 8.54 W/kg = 9.31 dBW/kg

PCTEST

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

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

Medium: 2450-2600 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.005 \text{ S/m}$; $\epsilon_r = 50.845$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-29-2020; Ambient Temp: 22.1°C; Tissue Temp: 20.1°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)

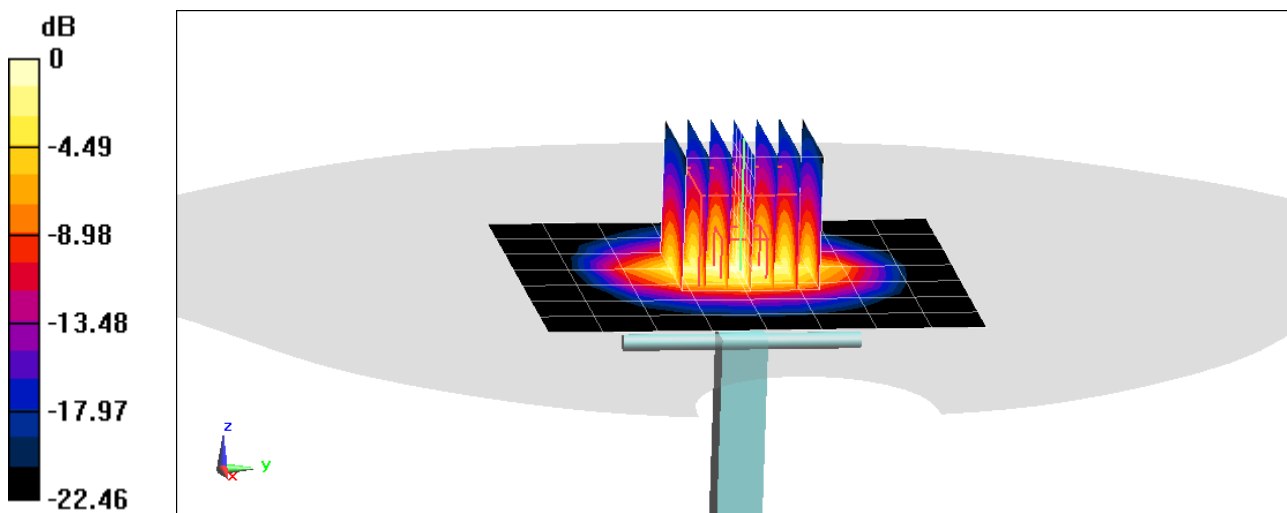
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 4.92 W/kg; SAR(10 g) = 2.24 W/kg

Deviation(1 g) = -3.15%



PCTEST

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

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

Medium: 2450-2600 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.038 \text{ S/m}$; $\epsilon_r = 51$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date:02-04-2020; Ambient Temp: 22.2°C; Tissue Temp: 20.5°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)

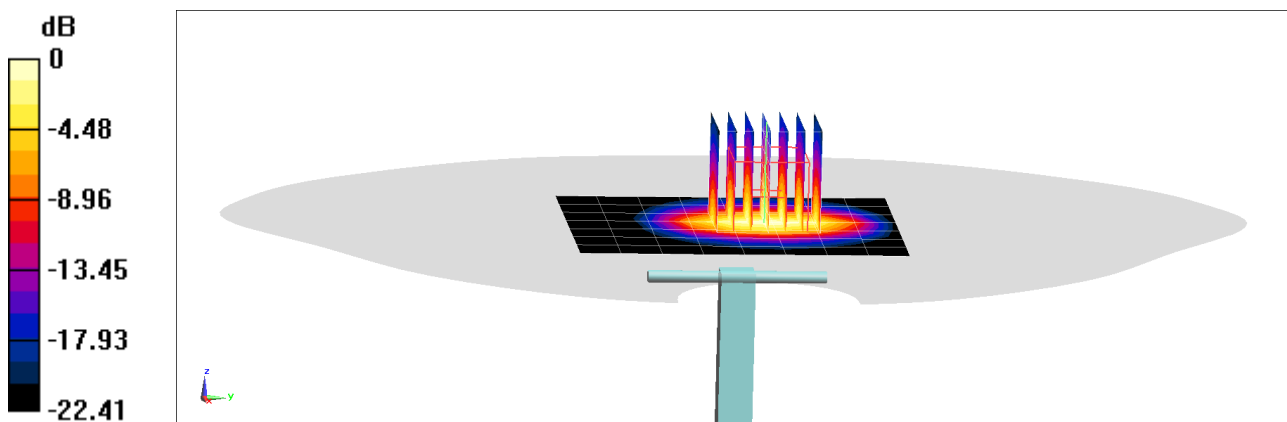
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.38 W/kg

Deviation(1 g) = 5.47%



0 dB = 8.92 W/kg = 9.50 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

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

Medium: 2450-2600 Body Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 2.216 \text{ S/m}$; $\epsilon_r = 50.297$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-29-2020; Ambient Temp: 22.1°C; Tissue Temp: 20.1°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)

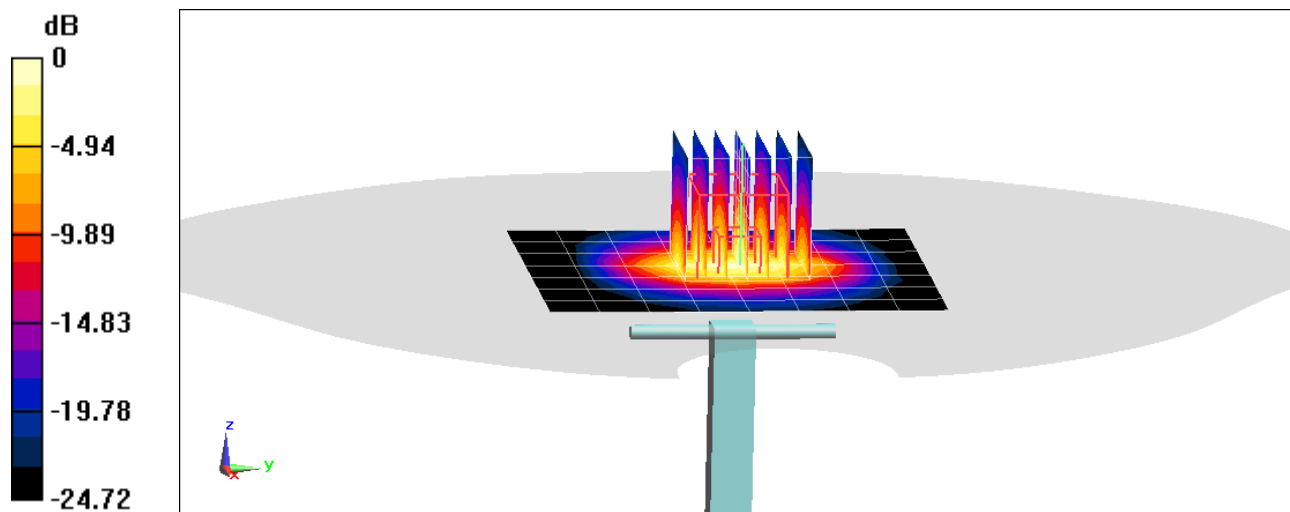
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 11.9 W/kg

SAR(1 g) = 5.25 W/kg; SAR(10 g) = 2.31 W/kg

Deviation(1 g) = -5.06%



0 dB = 9.20 W/kg = 9.64 dBW/kg

PCTEST

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

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

Medium: 2450-2600 Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.223$ S/m; $\epsilon_r = 50.587$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date:02-04-2020; Ambient Temp: 22.2°C; Tissue Temp: 20.5°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)

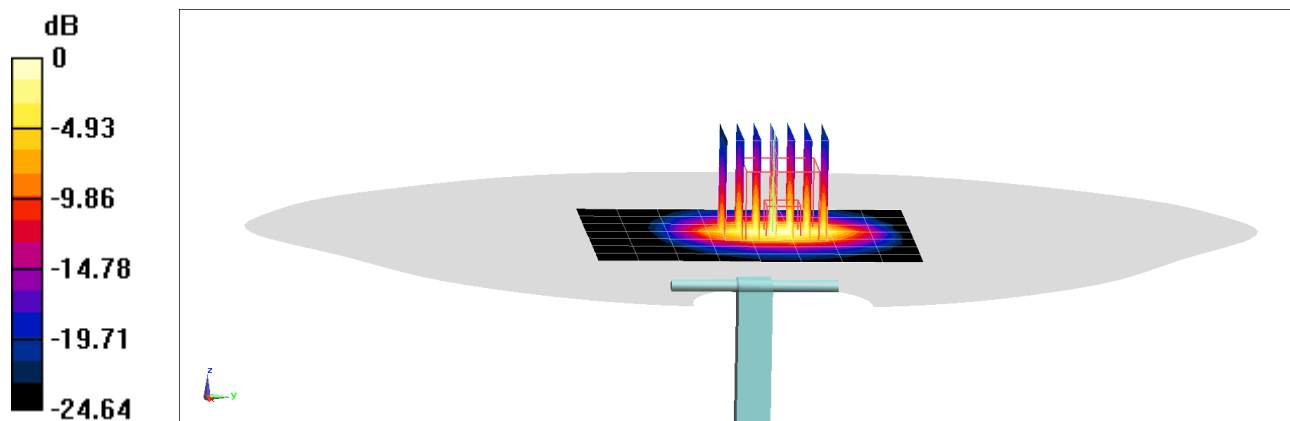
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.55 W/kg; SAR(10 g) = 2.41 W/kg

Deviation(1 g) = 0.00%



0 dB = 9.66 W/kg = 9.85 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 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: 01-20-2020; 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)

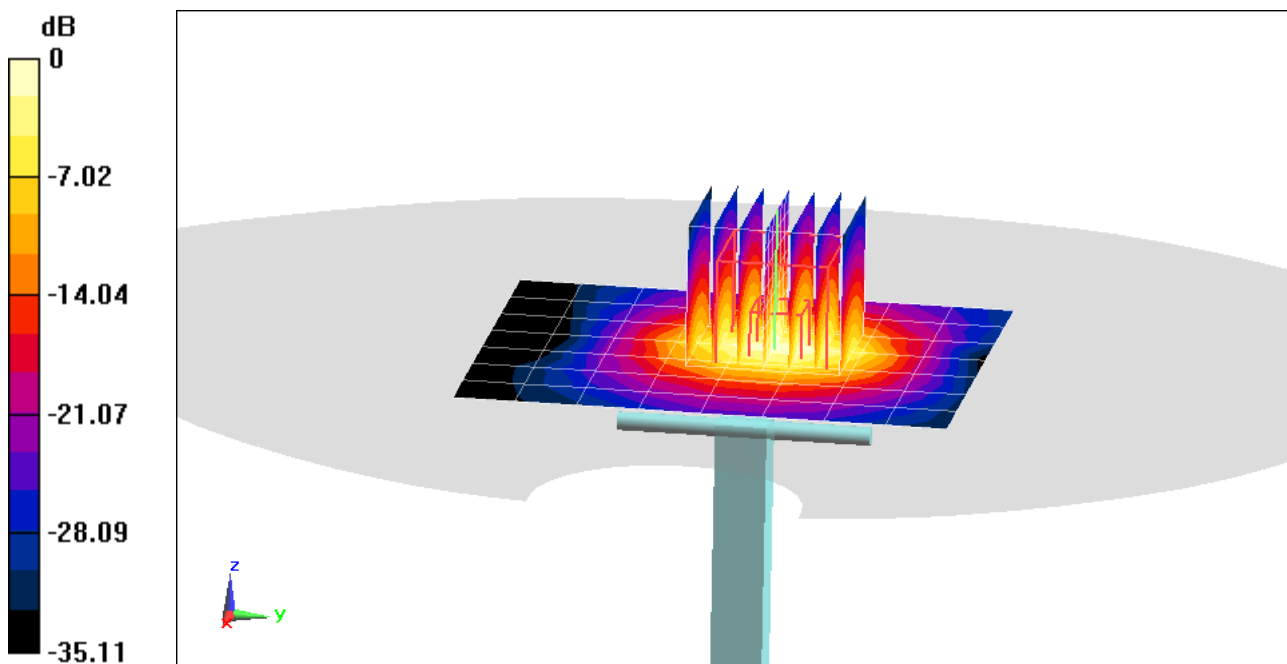
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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%



PCTEST

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

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

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

$f = 3700 \text{ MHz}$; $\sigma = 3.628 \text{ S/m}$; $\epsilon_r = 48.993$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 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) @ 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)

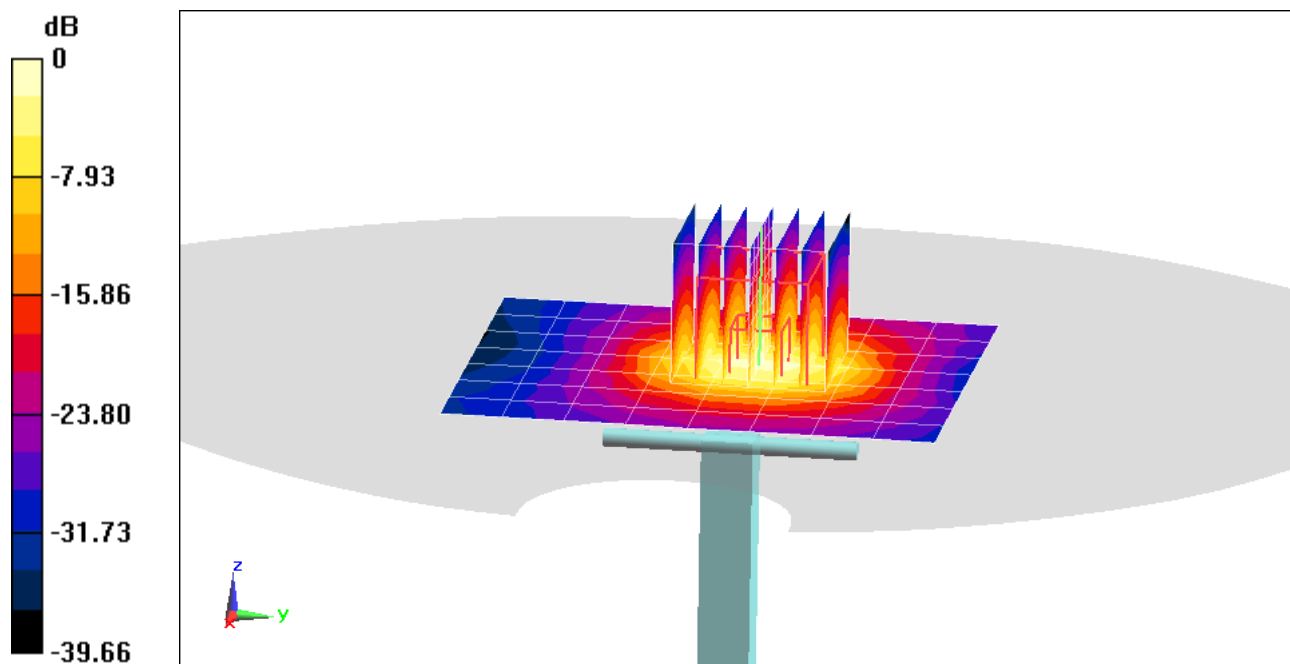
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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%



0 dB = 12.7 W/kg = 11.04 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1163

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

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

$f = 5250 \text{ MHz}$; $\sigma = 5.121 \text{ S/m}$; $\epsilon_r = 48.383$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.2°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)

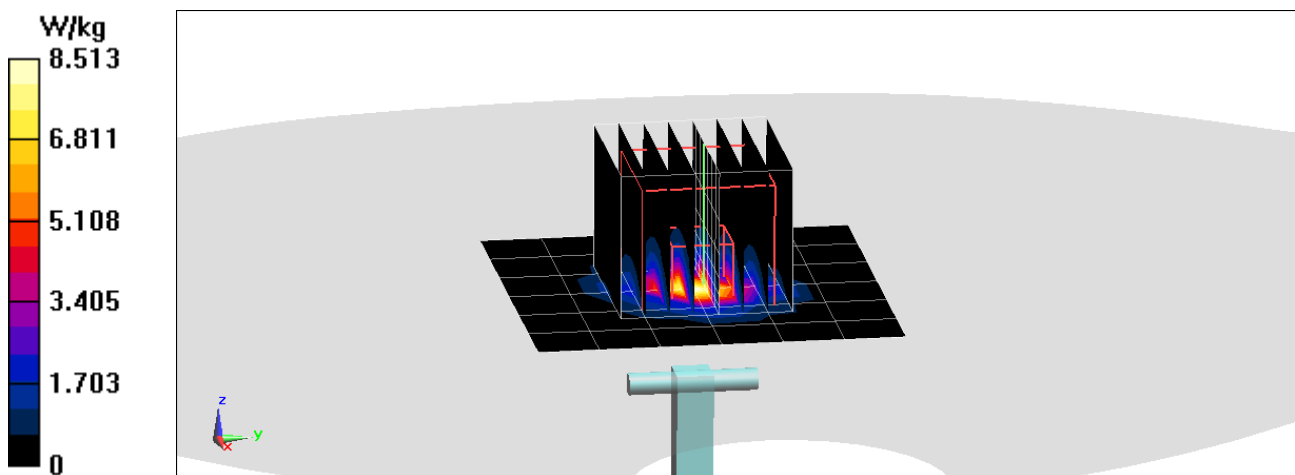
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 13.5 W/kg

SAR(1 g) = 3.66 W/kg; SAR(10 g) = 1.02 W/kg

Deviation(1 g) = -5.79%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1163

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

Medium: 5GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.629 \text{ S/m}$; $\epsilon_r = 47.689$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.2°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)

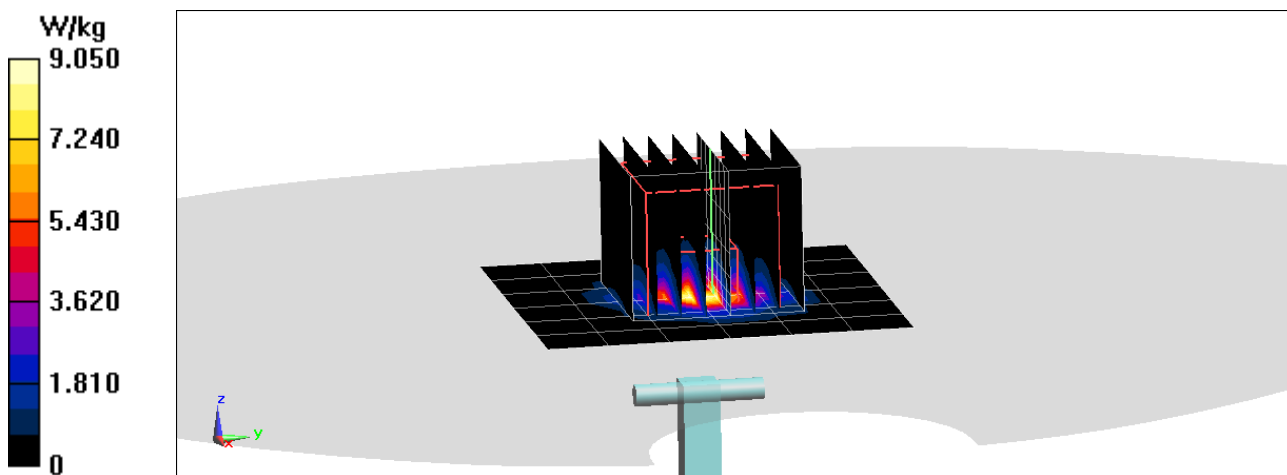
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

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) = 15.5 W/kg

SAR(1 g) = 3.78 W/kg; SAR(10 g) = 1.04 W/kg

Deviation(1 g) = -5.62%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1163

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

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

$f = 5750 \text{ MHz}$; $\sigma = 5.83 \text{ S/m}$; $\epsilon_r = 47.404$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.2°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)

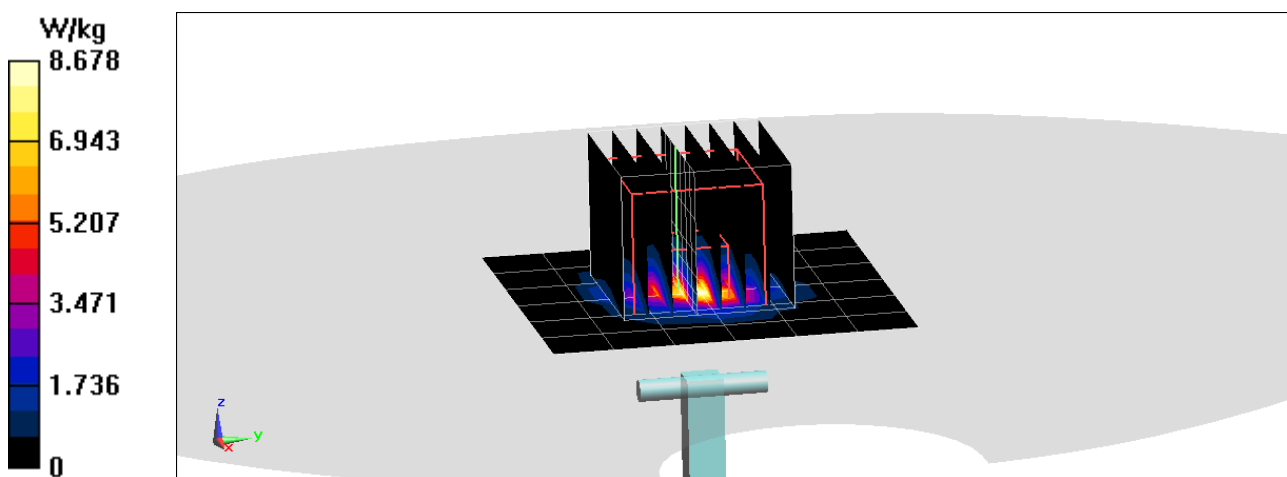
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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) = 3.59 W/kg; SAR(10 g) = 0.995 W/kg

Deviation(1 g) = -7.71%



APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/20/2019 – 02/05/2020	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	Alkoxylated 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: BCGA2232	 SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/20/2019 – 02/05/2020	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 865864 compliance standard.

Test Condition

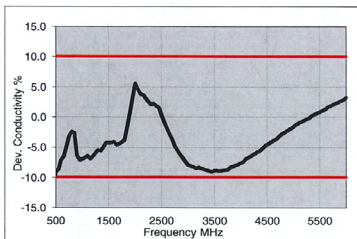
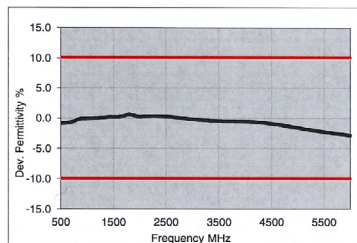
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 30-Oct-18
 Operator CL

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

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

FCC ID: BCGA2232	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device		APPENDIX C: Page 3 of 3

APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCGA2232	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device		APPENDIX D: Page 1 of 2

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.	PERM.	CW VALIDATION			MOD. VALIDATION		
					(σ)	(ε _r)	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
AM6	835	8/7/2019	7427	835	Body	0.959	54.066	PASS	PASS	PASS	GMSK	PASS
AM6	1750	3/12/2019	7427	1750	Body	1.456	51.525	PASS	PASS	PASS	N/A	N/A
AM2	1900	12/5/2019	7420	1900	Body	1.490	52.56	PASS	PASS	PASS	GMSK	PASS
AM4	2300	4/23/2019	7532	2300	Body	1.897	50.974	PASS	PASS	PASS	N/A	N/A
AM4	2450	4/23/2019	7532	2450	Body	2.027	50.762	PASS	PASS	PASS	OFDM/TDD	PASS
AM3	2450	9/4/2019	3949	2450	Body	1.955	52.22	PASS	PASS	PASS	OFDM/TDD	PASS
AM4	2600	4/23/2019	7532	2600	Body	2.167	50.527	PASS	PASS	PASS	TDD	PASS
AM3	2600	9/4/2019	3949	2600	Body	2.096	51.97	PASS	PASS	PASS	TDD	PASS
AM3	3500	12/11/2019	3949	3500	Body	3.448	50.786	PASS	PASS	PASS	TDD	PASS
AM3	3700	12/11/2019	3949	3700	Body	3.67	50.471	PASS	PASS	PASS	TDD	PASS
AM5	5250	8/27/2019	7491	5250	Body	5.352	47.481	PASS	PASS	PASS	OFDM	N/A
AM5	5600	8/14/2019	7491	5600	Body	5.897	46.808	PASS	PASS	PASS	OFDM	N/A
AM5	5750	8/14/2019	7491	5750	Body	6.122	46.512	PASS	PASS	PASS	OFDM	N/A

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	CC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
CCC#1	CA [2A]	5, 10, 15, 20		Yes
CCC#2	CA [2A]	5, 10, 15, 20		Yes
CCC#3	CA [2A]	5, 10, 15, 20		Yes
CCC#4	CA [2A]	5, 10, 15, 20		Yes
CCC#5	CA [2A]	5, 10, 15, 20		Yes
CCC#6	CA [2A]	5, 10, 15, 20		Yes
CCC#7	CA [2A]	5, 10, 15, 20		Yes
CCC#8	CA [2A]	5, 10, 15, 20		Yes
CCC#9	CA [2A]	5, 10, 15, 20		Yes
CCC#10	CA [2A]	5, 10, 15, 20		Yes
CCC#11	CA [2A]	5, 10, 15, 20		Yes
CCC#12	CA [2A]	5, 10, 15, 20		Yes
CCC#13	CA [2A]	5, 10, 15, 20		Yes
CCC#14	CA [2A]	5, 10, 15, 20		Yes
CCC#15	CA [2A]	5, 10, 15, 20		Yes
CCC#16	CA [2A]	5, 10, 15, 20		Yes
CCC#17	CA [2A]	5, 10, 15, 20		Yes
CCC#18	CA [2A]	5, 10, 15, 20		Yes
CCC#19	CA [2A]	5, 10, 15, 20		Yes
CCC#20	CA [2A]	5, 10, 15, 20		Yes
CCC#21	CA [2A]	5, 10, 15, 20		Yes
CCC#22	CA [2A]	5, 10, 15, 20		Yes
CCC#23	CA [2A]	5, 10, 15, 20		Yes
CCC#24	CA [2A]	5, 10, 15, 20		Yes
CCC#25	CA [2A]	5, 10, 15, 20		Yes
CCC#26	CA [2A]	5, 10, 15, 20		Yes
CCC#27	CA [2A]	5, 10, 15, 20		Yes
CCC#28	CA [2A]	5, 10, 15, 20		Yes
CCC#29	CA [2A]	5, 10, 15, 20		Yes
CCC#30	CA [2A]	5, 10, 15, 20		Yes
CCC#31	CA [2A]	5, 10, 15, 20		Yes
CCC#32	CA [2A]	5, 10, 15, 20		Yes
CCC#33	CA [2A]	5, 10, 15, 20		Yes
CCC#34	CA [2A]	5, 10, 15, 20		Yes
CCC#35	CA [2A]	5, 10, 15, 20		Yes
CCC#36	CA [2A]	5, 10, 15, 20		Yes
CCC#37	CA [2A]	5, 10, 15, 20		Yes
CCC#38	CA [2A]	5, 10, 15, 20		Yes
CCC#39	CA [2A]	5, 10, 15, 20		Yes
CCC#40	CA [2A]	5, 10, 15, 20		Yes
CCC#41	CA [2A]	5, 10, 15, 20		Yes
CCC#42	CA [2A]	5, 10, 15, 20		Yes
CCC#43	CA [2A]	5, 10, 15, 20		Yes
CCC#44	CA [2A]	5, 10, 15, 20		Yes
CCC#45	CA [2A]	5, 10, 15, 20		Yes
CCC#46	CA [2A]	5, 10, 15, 20		Yes
CCC#47	CA [2A]	5, 10, 15, 20		Yes
CCC#48	CA [2A]	5, 10, 15, 20		Yes
CCC#49	CA [2A]	5, 10, 15, 20		Yes
CCC#50	CA [2A]	5, 10, 15, 20		Yes
CCC#51	CA [2A]	5, 10, 15, 20		Yes
CCC#52	CA [2A]	5, 10, 15, 20		Yes
CCC#53	CA [2A]	5, 10, 15, 20		Yes
CCC#54	CA [2A]	5, 10, 15, 20		Yes
CCC#55	CA [2A]	5, 10, 15, 20		Yes
CCC#56	CA [2A]	5, 10, 15, 20		Yes
CCC#57	CA [2A]	5, 10, 15, 20		Yes
CCC#58	CA [2A]	5, 10, 15, 20		Yes
CCC#59	CA [2A]	5, 10, 15, 20		Yes
CCC#60	CA [2A]	5, 10, 15, 20		Yes
CCC#61	CA [2A]	5, 10, 15, 20		Yes
CCC#62	CA [2A]	5, 10, 15, 20		Yes
CCC#63	CA [2A]	5, 10, 15, 20		Yes
CCC#64	CA [2A]	5, 10, 15, 20		Yes
CCC#65	CA [2A]	5, 10, 15, 20		Yes
CCC#66	CA [2A]	5, 10, 15, 20		Yes
CCC#67	CA [2A]	5, 10, 15, 20		Yes
CCC#68	CA [2A]	5, 10, 15, 20		Yes
CCC#69	CA [2A]	5, 10, 15, 20		Yes
CCC#70	CA [2A]	5, 10, 15, 20		Yes
CCC#71	CA [2A]	5, 10, 15, 20		Yes
CCC#72	CA [2A]	5, 10, 15, 20		Yes
CCC#73	CA [2A]	5, 10, 15, 20		Yes
CCC#74	CA [2A]	5, 10, 15, 20		Yes
CCC#75	CA [2A]	5, 10, 15, 20		Yes
CCC#76	CA [2A]	5, 10, 15, 20		Yes
CCC#77	CA [2A]	5, 10, 15, 20		Yes
CCC#78	CA [2A]	5, 10, 15, 20		Yes
CCC#79	CA [2A]	5, 10, 15, 20		Yes
CCC#80	CA [2A]	5, 10, 15, 20		Yes
CCC#81	CA [2A]	5, 10, 15, 20		Yes
CCC#82	CA [2A]	5, 10, 15, 20		Yes
CCC#83	CA [2A]	5, 10, 15, 20		Yes
CCC#84	CA [2A]	5, 10, 15, 20		Yes
CCC#85	CA [2A]	5, 10, 15, 20		Yes
CCC#86	CA [2A]	5, 10, 15, 20		Yes
CCC#87	CA [2A]	5, 10, 15, 20		Yes
CCC#88	CA [2A]	5, 10, 15, 20		Yes
CCC#89	CA [2A]	5, 10, 15, 20		Yes
CCC#90	CA [2A]	5, 10, 15, 20		Yes
CCC#91	CA [2A]	5, 10, 15, 20		Yes
CCC#92	CA [2A]	5, 10, 15, 20		Yes
CCC#93	CA [2A]	5, 10, 15, 20		Yes
CCC#94	CA [2A]	5, 10, 15, 20		Yes
CCC#95	CA [2A]	5, 10, 15, 20		Yes
CCC#96	CA [2A]	5, 10, 15, 20		Yes
CCC#97	CA [2A]	5, 10, 15, 20		Yes
CCC#98	CA [2A]	5, 10, 15, 20		Yes
CCC#99	CA [2A]	5, 10, 15, 20		Yes
CCC#100	CA [2A]	5, 10, 15, 20		Yes

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

Index	CC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
CCC#1	CA [2A]	5, 10, 15, 20		Yes
CCC#2	CA [2A]	5, 10, 15, 20		Yes
CCC#3	CA [2A]	5, 10, 15, 20		Yes
CCC#4	CA [2A]	5, 10, 15, 20		Yes
CCC#5	CA [2A]	5, 10, 15, 20		Yes
CCC#6	CA [2A]	5, 10, 15, 20		Yes
CCC#7	CA [2A]	5, 10, 15, 20		Yes
CCC#8	CA [2A]	5, 10, 15, 20		Yes
CCC#9	CA [2A]	5, 10, 15, 20		Yes
CCC#10	CA [2A]	5, 10, 15, 20		Yes
CCC#11	CA [2A]	5, 10, 15, 20		Yes
CCC#12	CA [2A]	5, 10, 15, 20		Yes
CCC#13	CA [2A]	5, 10, 15, 20		Yes
CCC#14	CA [2A]	5, 10, 15, 20		Yes
CCC#15	CA [2A]	5, 10, 15, 20		Yes
CCC#16	CA [2A]	5, 10, 15, 20		Yes
CCC#17	CA [2A]	5, 10, 15, 20		Yes
CCC#18	CA [2A]	5, 10, 15, 20		Yes
CCC#19	CA [2A]	5, 10, 15, 20		Yes
CCC#20	CA [2A]	5, 10, 15, 20		Yes
CCC#21	CA [2A]	5, 10, 15, 20		Yes
CCC#22	CA [2A]	5, 10, 15, 20		Yes
CCC#23	CA [2A]	5, 10, 15, 20		Yes
CCC#24	CA [2A]	5, 10, 15, 20		Yes
CCC#25	CA [2A]	5, 10, 15, 20		Yes
CCC#26	CA [2A]	5, 10, 15, 20		Yes
CCC#27	CA [2A]	5, 10, 15, 20		Yes
CCC#28	CA [2A]	5, 10, 15, 20		Yes
CCC#29	CA [2A]	5, 10, 15, 20		Yes
CCC#30	CA [2A]	5, 10, 15, 20		Yes
CCC#31	CA [2A]	5, 10, 15, 20		Yes
CCC#32	CA [2A]	5, 10, 15, 20		Yes
CCC#33	CA [2A]	5, 10, 15, 20		Yes
CCC#34	CA [2A]	5, 10, 15, 20		Yes
CCC#35	CA [2A]	5, 10, 15, 20		Yes
CCC#36	CA [2A]	5, 10, 15, 20		Yes
CCC#37	CA [2A]	5, 10, 15, 20		Yes
CCC#38	CA [2A]	5, 10, 15, 20		Yes
CCC#39	CA [2A]	5, 10, 15, 20		Yes
CCC#40	CA [2A]	5, 10, 15, 20		Yes
CCC#41	CA [2A]	5, 10, 15, 20		Yes
CCC#42	CA [2A]	5, 10, 15, 20		Yes
CCC#43	CA [2A]	5, 10, 15, 20		Yes
CCC#44	CA [2A]	5, 10, 15, 20		Yes
CCC#45	CA [2A]	5, 10, 15, 20		Yes
CCC#46	CA [2A]	5, 10, 15, 20		Yes
CCC#47	CA [2A]	5, 10, 15, 20		Yes
CCC#48	CA [2A]	5, 10, 15, 20		Yes
CCC#49	CA [2A]	5, 10, 15, 20		Yes
CCC#50	CA [2A]	5, 10, 15, 20		Yes
CCC#51	CA [2A]	5, 10, 15, 20		Yes
CCC#52	CA [2A]	5, 10, 15, 20		Yes
CCC#53	CA [2A]	5, 10, 15, 20		Yes
CCC#54	CA [2A]	5, 10, 15, 20		Yes
CCC#55	CA [2A]	5, 10, 15, 20		Yes
CCC#56	CA [2A]	5, 10, 15, 20		Yes
CCC#57	CA [2A]	5, 10, 15, 20		Yes
CCC#58	CA [2A]	5, 10, 15, 20		Yes
CCC#59	CA [2A]	5, 10, 15, 20		Yes
CCC#60	CA [2A]	5, 10, 15, 20		Yes
CCC#61	CA [2A]	5, 10, 15, 20		Yes
CCC#62	CA [2A]	5, 10, 15, 20		Yes
CCC#63	CA [2A]	5, 10, 15, 20		Yes
CCC#64	CA [2A]	5, 10, 15, 20		Yes
CCC#65	CA [2A]	5, 10, 15, 20		Yes
CCC#66	CA [2A]	5, 10, 15, 20		Yes
CCC#67	CA [2A]	5, 10, 15, 20		Yes
CCC#68	CA [2A]	5, 10, 15, 20		Yes
CCC#69	CA [2A]	5, 10, 15, 20		Yes
CCC#70	CA [2A]	5, 10, 15, 20		Yes
CCC#71	CA [2A]	5, 10, 15, 20		Yes
CCC#72	CA [2A]	5, 10, 15, 20		Yes
CCC#73	CA [2A]	5, 10, 15, 20		Yes
CCC#74	CA [2A]	5, 10, 15, 20		Yes
CCC#75	CA [2A]	5, 10, 15, 20		Yes
CCC#76	CA [2A]	5, 10, 15, 20		Yes
CCC#77	CA [2A]	5, 10, 15, 20		Yes
CCC#78	CA [2A]	5, 10, 15, 20		Yes
CCC#79	CA [2A]	5, 10, 15, 20		Yes
CCC#80	CA [2A]	5, 10, 15, 20		Yes
CCC#81	CA [2A]	5, 10, 15, 20		Yes
CCC#82	CA [2A]	5, 10, 15, 20		Yes
CCC#83	CA [2A]	5, 10, 15, 20		Yes
CCC#84	CA [2A]	5, 10, 15, 20		Yes
CCC#85	CA [2A]	5, 10, 15, 20		Yes
CCC#86	CA [2A]	5, 10, 15, 20		Yes
CCC#87	CA [2A]	5, 10, 15, 20		Yes
CCC#88	CA [2A]	5, 10, 15, 20		Yes
CCC#89	CA [2A]	5, 10, 15, 20		Yes
CCC#90	CA [2A]	5, 10, 15, 20		Yes
CCC#91	CA [2A]	5, 10, 15, 20		Yes
CCC#92	CA [2A]	5, 10, 15, 20		Yes
CCC#93	CA [2A]	5, 10, 15, 20		Yes
CCC#94	CA [2A]	5, 10, 15, 20		Yes
CCC#95	CA [2A]	5, 10, 15, 20		Yes
CCC#96	CA [2A]	5, 10, 15, 20		Yes
CCC#97	CA [2A]	5, 10, 15, 20		Yes
CCC#98	CA [2A]	5, 10, 15, 20		Yes
CCC#99	CA [2A]	5, 10, 15, 20		Yes
CCC#100	CA [2A]	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.

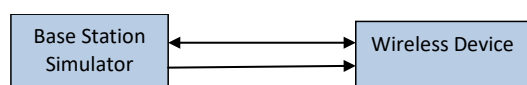


Figure 1
DL CA Power Measurement Setup

FCC ID: BCGA2232	 PCTEST Ready to be part of the solution	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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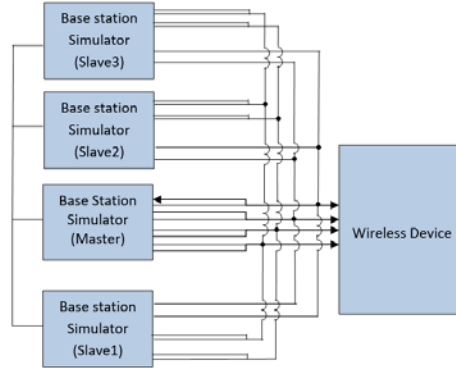


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
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 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
										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]		
CA 2A-12A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 4A-12A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.70	21.80
CA 4A-12A (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.70	21.80
CA 12A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 12A-66A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 12A-66A (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2C-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-2A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 4A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-2A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-2A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 4A-4A-12A-30A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.54	21.80
CA 2A-4A-12A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-4A-12A-30A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-2A-12A-30A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-2A-12A-30A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80
CA 2A-12A-30A-66A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	21.80	21.80

1.3.2 LTE Band 13 as PCC

Table 2
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 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
										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]		
CA 4A-4A-13A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.58	21.64
CA 2A-4A-13A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.57	21.64
CA 2A-12A-46A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.57	21.64
CA 13A-46A-66A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.64
CA 13A-46A-66B	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.58	21.64
CA 13A-46A-66C	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.58	21.64
CA 2A-2A-12A-13A-66A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.57	21.64
CA 2A-12A-66A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.57	21.64
CA 2A-12A-66C	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.57	21.64
CA 13A-46C-66A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.64
CA 13A-46C	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.64
CA 13A-46D	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.64
CA 2A-12A-46D	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.57	21.64
CA 13A-46D-66A	LTE B13	10	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	21.57	21.64

FCC ID: BCGA2232	 PCTEST Ready for your next test	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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1.3.3

LTE Band 5 as PCC

Table 3
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power				
					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-7A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B7	20	3100	2665	-	-	-	-	-	-	-	-	-	-	-	-	-	21.28	21.17	
CA 5A-25A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	-	-	-	21.28	21.17	
CA 5A-41A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	21.28	21.17	
CA 5A-46A (1)	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	21.28	21.17	
CA 5A-46A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	21.28	21.17	
CA 2C-5A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	20.94	21.17
CA 4A-5B (1)	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	5	2577	886.7	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	20.94	21.17
CA 5A-7A-7A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B7	20	3100	2665	LTE B7	20	2850	2630	-	-	-	-	-	-	-	-	-	-	20.97	21.17
CA 5A-7C	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B7	20	3100	2665	LTE B7	20	2850	2630	-	-	-	-	-	-	-	-	-	-	20.94	21.17
CA 5A-42C (1)	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	-	21.00	21.17
CA 2A-5A-46A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	20.95	21.17
CA 5A-46A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	LTE B46	20	66786	2145	-	-	-	-	-	-	-	-	-	-	20.96	21.17
CA 4A-4A-5B	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	-	-	20.89	21.17
CA 5A-46D (1)	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50665	5537.5	-	-	-	-	-	-	20.86	21.17
CA 5A-46A-66B	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	66786	2145	LTE B46	5	67188	2163.2	LTE B46	15	67261	2160.5	-	-	-	-	-	-	20.97	21.17
CA 5A-46A-66C	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	66786	2145	LTE B46	20	67338	2163.2	LTE B46	20	67286	2160	-	-	-	-	-	-	20.95	21.17
CA 2A-2A-4A-5A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	20.92	21.17
CA 2A-4A-4A-5A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	2150	2150	-	-	-	-	-	-	20.94	21.17
CA 2A-4A-5B	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	20.91	21.17
CA 2A-5A-46C	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	20.93	21.17
CA 4A-4A-5A-30A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	LTE B30	10	8020	2355	-	-	-	-	-	-	20.95	21.17
CA 4A-4C-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	66786	2145	-	-	-	-	-	-	20.96	21.17
CA 2A-4A-5A-30A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	8020	2355	-	-	-	-	-	-	20.96	21.17
CA 2A-2A-5A-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B46	20	66786	2145	LTE B46	20	67236	2160	20.89	21.17		
CA 2A-2A-5A-66B	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B46	15	66786	2145	LTE B46	5	66879	2154.3	20.84	21.17		
CA 2A-2A-5A-66C	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B46	20	66786	2145	LTE B46	20	66984	2164.8	20.86	21.17		
CA 2A-5A-46D	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50665	5537.5	20.92	21.17		
CA 2A-5B-66B	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B46	15	66786	2145	LTE B46	5	66879	2154.3	20.86	21.17		
CA 2A-5B-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B46	20	66786	2145	LTE B46	20	66984	2164.8	20.85	21.17		
CA 2A-5B-66B-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B46	20	66786	2145	LTE B46	20	67236	2160	20.93	21.17		
CA 5A-46D-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50665	5537.5	LTE B46	20	66786	2145	20.88	21.17		
CA 5B-30A-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B30	10	8020	2355	LTE B46	20	66786	2145	LTE B46	20	67236	2160	20.87	21.17		
CA 2A-2A-5A-30A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8020	2355	LTE B46	20	66786	2145	20.86	21.17		
CA 2A-5A-30A-66A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B2	20	900	1960	LTE B30	10	8020	2355	LTE B46	20	66786	2145	LTE B46	20	67236	2160	20.88	21.17		
CA 2A-5B-30A-66A	LTE B5	5	26025	846.5	64QAM	1	0	26225	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B30	10	8020	2355	LTE B46	20	66786	2145	20.92	21.17		

1.3.4

LTE Band 26 as PCC

Table 4
Output Powers – Ant 3

	PCC										SCC 1				SCC 2				Power	
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]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 7A-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	LTE B7	20	3100	2655	-	-	-	-	-	21.02	20.99
CA 25A-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	LTE B25	20	8365	1962.5	-	-	-	-	-	21.01	20.99
CA 26A-41A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	LTE B41	20	40620	2593	-	-	-	-	-	21.07	20.99
CA 7A-7A-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	LTE B7	20	3100	2655	LTE B7	20	2850	2630	-	20.72	20.99
CA 25A-25A-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	-	20.63	20.99
CA 26A-41C	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	-	20.86	20.99

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LTE Band 66 as PCC

Table 5
Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC										SCC 1										SCC 2										SCC 3										SCC 4										SCC 5										Power	
			PCC (DL) Ch	PCC (UL) Freq. [MHz]	Mod.	PCC UAR #B	PCC UKB #B Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	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 Cat. 4 Max. WTRD CA Power (dBm)	LTE Shape Carrier Tx Power (dBm)																															
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A	LTE-BW6	15	132322	1745	QPSK	1	0	66786	2145	LTE-B12	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	QPSK	20	6000	1960	132322	1745	15.00	15.00																													
CA 2A-9A																																																																

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device	APPENDIX F: Page 5 of 16

1.3.6

LTE Band 25 as PCC

Table 6
Output Powers – Ant 2A

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 5A-25A	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 12A-25A	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B12	10	5005	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 25A-25A	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B25	10	8805	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 25A-46A	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B46	20	9005	9537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 25A-25A-25A	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B25	20	8900	1905	LTE B26	5	8805	876.5	-	-	-	-	-	-	-	-	-	-	14.66	15.00	
CA 25A-25A-41A	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B25	20	8900	1905	LTE B41	20	40020	2093	-	-	-	-	-	-	-	-	-	-	14.93	15.00	
CA 25A-41C	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B41	20	40020	2093	LTE B41	20	40020	2093	-	-	-	-	-	-	-	-	-	-	14.84	15.00	
CA 25A-46C	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B46	20	9005	9537.5	LTE B46	20	9005	9537.7	-	-	-	-	-	-	-	-	-	-	14.81	15.00	
CA 25A-25A-41C	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B25	20	8900	1905	LTE B41	20	40020	2093	LTE B41	20	40020	2093	-	-	-	-	-	-	-	14.94	15.00
CA 25A-46C	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B46	20	9005	9537.5	LTE B46	20	9005	9537.7	LTE B46	20	9005	9537.7	-	-	-	-	-	-	-	14.80	15.00
CA 25A-25A-41C	LTE B25	20	26140	1860	16QAM	1	99	8140	1940	LTE B25	20	8900	1905	LTE B41	20	40020	2093	LTE B41	20	40020	2093	LTE B41	20	40020	2093	-	-	-	14.94	15.00

1.3.7

LTE Band 30 as PCC

Table 7
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 CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 2C-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	13.24	13.35	
CA 2A-2A-20A-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B29	10	9715	722.5	-	-	-	-	-	-	13.26	13.35
CA 4A-4A-5A-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2160	2160	LTE B8	10	2625	881.5	-	-	-	-	-	-	13.22	13.35
CA 4A-4A-12A-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2160	2160	LTE B12	10	9095	771.5	-	-	-	-	-	-	13.22	13.35
CA 2A-4A-5A-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B5	10	2625	881.5	-	-	-	-	-	-	13.24	13.35
CA 2A-4A-12A-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B12	10	9095	771.5	-	-	-	-	-	-	13.22	13.35
CA 2A-4A-20A-30A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	-	-	-	13.22	13.35
CA 2A-2A-30A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B29	10	8715	722.5	LTE B66	20	66786	2145	-	-	-	-	-	-	13.22	13.35
CA 30A-30A-66A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B5	10	2625	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	-	-	-	-	-	-	13.22	13.35
CA 2A-2A-3A-30A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B5	10	2163	881.5	-	-	-	-	-	-	13.22	13.35
CA 2A-2A-12A-30A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B12	10	700	1940	LTE B12	10	9095	771.5	LTE B66	20	66786	2145	-	13.13	13.35	
CA 2A-4B-30A-66A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B5	10	2163	881.5	LTE B66	20	66786	2145	-	-	-	-	-	-	13.22	13.35
CA 2A-4B-12A-30A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B5	10	2163	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	-	13.21	13.35	
CA 2A-12A-30A-66A-66A	LTE B30	10	27710	2310	64QAM	1	49	0820	2355	LTE B2	20	900	1900	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	13.19	13.35	

1.3.8

LTE Band 7 as PCC

Table 8
Output Powers – Ant 4A

Combination	PCC Band	PCC				Mod.	PCC UL RB		PCC [DL] Channel	SCC 1				SCC 2				SCC 3				SCC 4				Power			
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	PCC UL RB		PCC UL RB Offset	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 CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 7B	LTE B7	15	20855	2507.5	QPSK	1	74	2925	2627.5	LTE B7	5	2918	2626.8	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.60		
CA 5A-7A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B5	10	2625	881.5	-	-	-	-	-	-	-	-	-	-	-	-	14.58	14.60		
CA 7A-25A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B26	10	8805	876.5	-	-	-	-	-	-	-	-	-	-	-	-	14.58	14.60		
CA 7A-46A (1)	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B46	20	9005	9537.5	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.60		
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B4	20	2175	2132.5	LTE B4	20	2200	2150	-	-	-	-	-	-	-	-	-	14.55	14.60	
CA 5A-7A-7A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3350	2680	LTE B5	10	2625	881.5	-	-	-	-	-	-	-	-	-	14.52	14.60	
CA 5A-7C	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3048	2649.8	LTE B5	10	2625	881.5	-	-	-	-	-	-	-	-	-	14.54	14.60	
CA 7A-7A-25A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3350	2680	LTE B26	10	8805	876.5	-	-	-	-	-	-	-	-	-	14.51	14.60	
CA 7A-46C (1)	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B46	20	9005	9537.5	LTE B46	20	90487	9537.7	-	-	-	-	-	-	-	-	-	14.54	14.60	
CA 7C-46A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3048	2649.8	LTE B46	20	9005	9537.5	-	-	-	-	-	-	-	-	-	14.53	14.60	
CA 7A-46D (1)	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B46	20	9005	9537.5	LTE B46	20	90487	9537.7	LTE B46	20	90863	9537.9	-	-	-	-	-	14.56	14.60	
CA 7C-46C	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3048	2649.8	LTE B46	20	9005	9537.5	LTE B46	20	90487	9537.7	-	-	-	-	-	-	14.47	14.60
CA 2A-4A-7A-7A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3350	2680	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	14.50	14.60
CA 2A-4A-7C	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3048	2649.8	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	14.57	14.60
CA 2A-4A-7A-12A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B2	20	900	1960	LTE B4	20	9175	2132.5	LTE B12	10	9095	771.5	-	-	-	-	-	-	14.55	14.60
CA 2A-7A-7A-66A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3350	2680	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	-	-	-	-	-	14.60	14.60
CA 2A-4A-7A-66A	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B2	20	900	1960	LTE B12	10	9095	771.5	LTE B66	20	66786	2145	-	-	-	-	-	-	14.58	14.60
CA 7C-46D	LTE B7	20	20850	2510	QPSK	1	99	2950	2630	LTE B7	20	3048	2649.8	LTE B46	20	9005	9537.5	LTE B46	20	90487	9537.7	LTE B46	20	90863	9537.9	14.54	14.60	14.60	

LTE Band 41 as PCC

Table 9
Output Powers – Ant 4A

Combination	PCB Band	PCC						SSC 1				SSC 2				SSC 3				SSC 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]	SSC Band	SSC BW [MHz]	SSC [DL] Ch	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	LTE Tx Power with DC Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 41A-41A (1)	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	16.88	15.80
CA 5A-41A	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B35	10	28275	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	16.88	15.80
CA 26A-41A	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B35	10	28275	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	16.88	15.80
CA 41A-41C	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	16.83	15.80
CA 41C-41A	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	16.79	15.80
CA 26A-41A	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	16.83	15.80
CA 25A-41C	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B25	10	8350	1969.5	-	-	-	-	-	-	-	-	-	16.83	15.80
CA 26A-41C	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B26	10	8850	876.5	-	-	-	-	-	-	-	-	-	16.83	15.80
CA 41C-41C	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	41292	2660.2	LTE B41	20	40770	2088.5	-	-	-	-	-	16.80	15.80
CA 41A-41D	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	41294	2660.2	-	-	-	-	-	-	-	-	-	-	-	-	-	16.80	15.80
CA 41D-41A	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	40261	2569.1	LTE B41	20	41490	2680	-	-	-	-	-	16.80	15.80
CA 25A-41A	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	40261	2569.1	LTE B41	20	41490	2680	-	-	-	-	-	16.80	15.80
CA 25A-41C	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B25	10	8500	1985	-	-	-	-	-	-	-	-	-	16.77	15.80
CA 41C-41D	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	41294	2660.2	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	16.88	16.80	
CA 41A-41D	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	40261	2569.1	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	16.80	15.80	
CA 25A-41D	LTE B41	20	40185	2549.5	15QAM	0	0	40185	2549.5	LTE B41	20	40183	2560.3	LTE B41	20	40261	2569.1	LTE B25	10	8365	1960.5	LTE B25	10	8360	1985	16.80	15.80	

LTE Band 41 PC2 as PCC

Table 10
Output Powers – Ant 4A

Combination	PCB Band	PCB BW [MHz]	PCF [A/C]	PCU [L/F]	Mod.	SC1										SCC Band	SC2		SC3		Power
						PCF U/F RB	PCF L/R Offset	PCD [L/F] Channel	PCD [L/F] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [D/L] Channel	SCC [D/L] Freq. [MHz]	SCC Band	SCC BW [MHz]		SCC [D/L] Channel	SCC [D/L] Freq. [MHz]	SCC Band	SCC BW [MHz]	
CA 43A-43A (1)	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	41490	2680	-	-	-	-	16.80	16.80		
CA 5A-41A	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B5	10	2526	818.5	-	-	-	-	16.82	16.80		
CA 26A-41A	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B26	10	860	178.5	-	-	-	-	16.82	16.80		
CA 41A-41A	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	41292	2602.0	LTE B41 PC2	20	41490	2680	16.80	16.80		
CA 41C-41A	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B41 PC2	20	41490	2680	16.78	16.80		
CA 26B-36A	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B26	10	860	178.5	-	-	-	-	16.78	16.80		
CA 26A-41C	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B26	10	860	178.5	16.78	16.80		
CA 26A-41C	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B26	10	860	178.5	16.80	16.80		
CA 41C-41E	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B41 PC2	20	40778	2603.0	16.80	16.80		
CA 41A-41D	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	41094	2604.0	LTE B41 PC2	20	41292	2602.0	16.80	16.80		
CA 41C-41E	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B41 PC2	20	40581	2589.0	16.80	16.80		
CA 41C-41E	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B41 PC2	20	40581	2589.0	16.80	16.80		
CA 5A-25A-41A	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B26	10	860	178.5	16.80	16.80		
CA 41C-41D	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B41 PC2	20	41292	2602.0	16.80	16.80		
CA 5A-25A-41D	LTE B41 PC2	20	40186	2549.5	25QAM	1	50	40186	2549.5	LTE B41 PC2	20	40380	2603.0	LTE B26	10	860	178.5	16.82	16.80		

LTE Band 48 as PCC

Table 11
Output Powers – Ant 3

[illegible]

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device	APPENDIX F: Page 7 of 16

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 12
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]	Maximum Allowed Power [dBm]
48	20	56207	3646.7	16QAM	1	0	17.39	17.35	17.50

Table 13
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]	Maximum Allowed Power [dBm]
25	20	26140	1860	16QAM	1	99	15.00	15.00	15.00
30	10	27710	2310	64QAM	1	49	13.61	13.55	14.00

Table 14
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]	Maximum Allowed Power [dBm]
66	15	132322	1745	QPSK	1	0	15.03	15.10	15.10

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device	APPENDIX F: Page 8 of 16

Table 15
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]	Maximum Allowed Power [dBm]
7	20	20850	2510	QPSK	1	99	14.60	14.60	14.60
41	20	40185	2549.5	16QAM	50	0	16.90	16.90	16.90
41 PC2	20	40185	2549.5	16QAM	1	50	16.90	16.90	16.90

FCC ID: BCGA2232	 PCTEST Ready for the next step in 5G research	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device		APPENDIX F: Page 9 of 16

1.4.2

LTE Band 12 as PCC

Table 16
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	SCC 4				Power			
					Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA [2A] [2A] [1]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.86	21.80	
CA [4A] [2A] [1]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.36	21.80	
CA [4A] [2A] [2]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.36	21.80	
CA [2A] [2A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.33	21.80	
CA [2A] [6A] [1]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.86	21.80	
CA [2A] [6A] [2]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.38	21.80	
CA [2C] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	21.86	21.80
CA [2A] [2A] [2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B12	10	1307	738.7	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	900	1960	4x4	-	-	-	-	-	21.37	21.80
CA [4A] [2A] [2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B12	10	1307	738.7	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2355	4x4	-	-	-	-	-	21.37	21.80
CA [2A] [2A] [4A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2355	4x4	-	-	-	-	-	21.32	21.80
CA [2A] [2A] [2A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	-	-	-	-	-	21.39	21.80
CA [2A] [2A] [2A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	900	1960	4x4	LTE B60	20	66786	2145	4x4	-	-	-	-	-	21.34	21.80
CA [2A] [4A] [4A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2355	4x4	-	-	-	-	-	21.24	21.80
CA [2A] [4A] [2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B12	10	1307	738.7	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	21.41	21.80
CA [2A] [2A] [6A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B69	20	66786	2145	4x4	LTE B69	20	66786	2145	4x4	-	-	-	-	-	21.86	21.80
CA [2A] [2A] [6C]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66884	2164.8	4x4	-	-	-	-	-	21.33	21.80
CA [4A] [4A] [2A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2355	4x4	LTE B30	10	9820	2355	4x4	-	-	-	-	-	21.32	21.80
CA [2A] [2A] [6A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B20	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	21.36	21.80
CA [2A] [4A] [2A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B7	20	3100	2655	4x4	-	-	-	-	-	21.29	21.80
CA [2A] [4A] [2A] [2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	LTE B30	10	9820	2355	4x4	-	-	-	-	-	21.32	21.80
CA [2A] [2A] [2A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B67	20	66786	2145	4x4	LTE B69	20	66786	2145	4x4	-	-	-	-	-	21.27	21.80
CA [2A] [2A] [2A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B30	10	9820	2355	4x4	LTE B69	20	66786	2145	4x4	-	-	-	-	-	21.34	21.80
CA [2A] [2A] [2A] [6A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	2x2	LTE B66	20	67236	2190	2x2	21.37	21.80
CA [2A] [2A] [2A] [6A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	4x4	LTE B66	20	66786	2145	4x4	21.35	21.80
CA [2A] [2A] [2A] [6A] [6A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2	LTE B2	20	900	1960	2x2	LTE B30	10	9820	2355	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	21.79	21.80

1.4.3

LTE Band 13 as PCC

Table 17
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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	SCC 4				Power		
											SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [4A] [4A] [3A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2310	2150	4x4	-	-	-	-	-	-	-	-	-	21.56	21.64	
CA [2A] [4A] [3A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2310	2150	4x4	-	-	-	-	-	-	-	-	-	21.58	21.64	
CA [2A] [3A] [4A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50605	5537.5	2x2	-	-	-	-	-	-	-	-	-	21.60	21.64	
CA [3A] [4A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B46	20	50605	5537.5	2x2	LTE B69	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	21.62	21.64	
CA [3A] [4A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B46	20	50605	5537.5	2x2	LTE B69	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	21.62	21.64	
CA [3A] [6A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B66	20	66786	2145	4x4	LTE B66	15	67261	2192.5	4x4	-	-	-	-	-	-	-	-	-	21.58	21.64	
CA [3A] [6A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	-	-	-	-	21.58	21.64	
CA [2A] [2A] [3A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	21.55	21.64
CA [2A] [3A] [4A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50605	5537.5	2x2	-	-	-	-	-	-	-	-	-	21.59	21.64	
CA [2A] [3A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2190	4x4	-	-	-	-	-	21.62	21.64
CA [3A] [4A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50607	5537.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	21.62	21.64
CA [3A] [4A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50607	5537.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	21.63	21.64
CA [3A] [6C] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B69	20	66786	2145	4x4	LTE B46	20	50607	5537.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	21.63	21.64
CA [2A] [3A] [4A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B2	20	900	1960	4x4	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50607	5537.7	2x2	LTE B46	20	50605	5537.3	2x2	21.64	21.64
CA [3A] [4A] [6A]	LTE B13	10	52320	782	QPSK	1	0	52320	751	2x2	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50607	5537.7	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	21.63	21.64

LTE Band 5 as PCC

Table 18
Output Powers – Ant 3

[illegible]

LTE Band 26 as PCC

Table 19
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] 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	5	26715	816.5	64QAM	1	0	8715	861.5	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	-	-20.68	20.99
CA [25A]-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	-	-20.58	20.99
CA 26A-[41A]	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	-	-20.88	20.99
CA [7A]-[7A]-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	-	-20.46	20.99
CA [25A]-[25A]-26A	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8990	1985	4x4	-	-20.44	20.99
CA 26A-[41C]	LTE B26	5	26715	816.5	64QAM	1	0	8715	861.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	-	-20.88	20.99

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device	APPENDIX F: Page 11 of 16

LTE Band 66 as PCC

Table 20
Output Powers – Ant 2B

[illegible]

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device	APPENDIX F: Page 12 of 16

1.4.7

LTE Band 25 as PCC

Table 21
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Freq. [MHz]	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	SCC 4				DL Ant. Config.	Power			
				PCC UL RB	PCC UL RB Offset	PCC [DL] Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]		SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)		LTE Single Carrier Tx Power (dBm)								
CA 1A(2A)	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.47	13.00	
CA 12A(2A)	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B12	10	5005	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.46	13.00	
CA 12A(2A)2A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B25	10	8805	876.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.45	13.00	
CA 12A(4A)4A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B46	20	50605	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.42	13.00	
CA 12A(2A)2A2A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B25	20	8500	1385	4x4	LTE B26	5	8805	876.5	2x2	-	-	-	-	-	-	-	-	-	-	-	14.42	13.00
CA 12A(2A)2A4A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B25	20	8900	1385	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	-	-	-	-	14.25	13.00
CA 12A(4A)4A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	-	-	-	-	-	14.48	13.00
CA 12A(4A)2A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50605	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	14.47	13.00
CA 12A(4A)4A2A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B25	20	8900	1385	4x4	LTE B41	20	40422	2573.2	4x4	LTE B4	20	40422	2573.2	4x4	-	-	-	-	-	-	14.49	13.00
CA 12A(4A)2A4A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40422	2573.2	4x4	-	-	-	-	-	-	15.00	13.00
CA 12A(4A)4A2A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50605	5537.5	2x2	LTE B46	20	50605	5537.5	2x2	-	-	-	-	-	-	14.49	13.00
CA 12A(4A)2A4A2A	LTE B25	20	26140	16QAM	1	99	8140	1940	4x4	LTE B25	20	8900	1385	4x4	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40422	2573.2	2x2	LTE B41	20	40422	2573.2	2x2	-	15.00	13.00

1.4.8

LTE Band 30 as PCC

Table 22
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC		DL Ant. Config.	SCC 1		DL Ant. Config.	SCC 2		DL Ant. Config.	SCC 3		DL Ant. Config.	SCC 4		Power														
						PCC UL RB	PCC UL RB Offset		SCC Band	SCC BW [MHz]		SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC Band	SCC BW [MHz]		SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)					
CA 12C(12A)	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B2	10	700	1560	4x4	-	-	-	-	-	-	-	-	-	-	13.95	13.95		
CA 12A(12A)1A(12A)	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B2	10	700	1560	4x4	LTE B12	10	2525	881.5	2x2	-	-	-	-	-	-	13.18	13.95	
CA 12A(12A)1A(12A)2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B2	10	700	1560	4x4	LTE B12	10	5005	737.5	2x2	-	-	-	-	-	-	13.13	13.95	
CA 12A(12A)1A(12A)4A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B2	10	700	1560	4x4	LTE B12	10	8715	722.5	2x2	-	-	-	-	-	-	13.23	13.95	
CA 12A(12A)1A(12A)2A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	2x2	LTE B12	10	700	1560	4x4	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.16	13.95	
CA 12A(12A)1A(12A)4A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	2x2	LTE B12	10	700	1560	4x4	LTE B66	20	67236	2100	4x4	-	-	-	-	-	-	13.17	13.95	
CA 12A(12A)1A(12A)4A2A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2150	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	-	13.20	13.95	
CA 12A(12A)1A(12A)2A4A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2150	4x4	LTE B12	10	5005	737.5	2x2	-	-	-	-	-	-	13.19	13.95	
CA 12A(12A)1A(12A)4A2A4A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2100	4x4	-	-	-	-	-	-	13.23	13.95	
CA 12A(12A)1A(12A)2A4A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	LTE B66	20	67236	2100	4x4	-	-	-	-	-	-	13.21	13.95	
CA 12A(12A)1A(12A)4A2A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2350	2150	4x4	LTE B12	10	5005	737.5	2x2	-	-	-	-	-	-	13.31	13.95	
CA 12A(12A)1A(12A)2A4A4A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B4	20	2175	2132.5	4x4	LTE B12	10	8715	722.5	2x2	-	-	-	-	-	-	13.17	13.95	
CA 12A(12A)1A(12A)4A2A4A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.12	13.95	
CA 12A(12A)1A(12A)4A2A4A2A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.10	13.95	
CA 12A(12A)1A(12A)2A4A4A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.15	13.95	
CA 12A(12A)1A(12A)4A2A4A4A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.12	13.95	
CA 12A(12A)1A(12A)2A4A4A2A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.16	13.95	
CA 12A(12A)1A(12A)4A2A4A4A2A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	4x4	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.14	13.95	
CA 12A(12A)1A(12A)2A4A4A2A4A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	2x2	LTE B2	10	700	1560	2x2	LTE B5	10	2525	881.5	2x2	LTE B66	20	66786	2145	4x4	-	-	13.16	13.95
CA 12A(12A)1A(12A)4A2A4A4A2A4A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	4x4	LTE B2	10	900	1560	2x2	LTE B2	10	700	1560	2x2	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	13.14	13.95
CA 12A(12A)1A(12A)2A4A4A2A4A2A	LTE B30	10	27710	2310	64QAM	1	49	9820	2305	2x2	LTE B2	10	900	1560	2x2	LTE B12	10	5005	737.5	2x2	LTE B66	20	66786	2145	4x4	-	-	-	-	-	-	13.18	13.95	

1.4.9

LTE Band 7 as PCC

Table 23
Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC 1				SCC 2				SCC 3				SCC 4				Power								
											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.	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 17B	LTE B7	15	20825	2507.5	QPSK	1	74	20825	2627.5	4x4	LTE B7	5	2918	2636.8	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.50	14.50			
CA 1A(17A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	10	2925	2630	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.57	14.57			
CA 17A(20A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B20	10	8865	876.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.55	14.60			
CA 17A(40A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.58	14.60		
CA 1A(17A)(20A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	10	2925	2630	4x4	LTE B2	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	14.58	14.57		
CA 1A(40A)(17A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B4	20	2175	2122.5	4x4	LTE B4	20	2390	2350	4x4	-	-	-	-	-	-	-	-	-	-	-	15.53	15.60		
CA 1A(17A)(20A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B5	20	2525	881.5	2x2	-	-	-	-	-	-	-	-	-	-	-	14.54	14.60		
CA 1A(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B2	20	2390	881.5	2x2	-	-	-	-	-	-	-	-	-	-	-	14.54	14.60		
CA 1A(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B26	10	8865	876.5	2x2	-	-	-	-	-	-	-	-	-	-	-	14.52	14.60		
CA 17A(40A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B40	20	50065	5537.5	2x2	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	14.48	14.60		
CA 17C(40A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3348	2649.8	4x4	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.46	14.60	
CA 1A(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.48	14.60	
CA 17A(40A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B40	20	50065	5537.5	2x2	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.46	14.60	
CA 17C(40A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3348	2649.8	4x4	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.56	14.60	
CA 2A(1A)(17A)(20A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B2	20	900	1960	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.52	14.60	
CA 2A(1A)(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B2	20	900	1960	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.50	14.60	
CA 2A(1A)(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B2	20	2175	2122.5	4x4	LTE B12	10	5090	737.5	2x2	-	-	-	-	-	-	-	-	14.59	14.60
CA 2A(1A)(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B2	20	2175	2122.5	4x4	LTE B12	10	5090	737.5	2x2	-	-	-	-	-	-	-	-	14.59	14.60
CA 2A(1A)(17A)(20A)(3)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B2	20	2175	2122.5	4x4	LTE B12	10	5090	737.5	2x2	-	-	-	-	-	-	-	-	14.55	14.60
CA 17C(40A)	LTE B7	20	20825	2510	QPSK	1	75	20825	2630	4x4	LTE B7	20	3348	2649.8	4x4	LTE B40	20	50065	5537.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.45	14.60	

LTE Band 41 as PCC

Table 24
Output Powers – Ant 4A

[illegible]

1.4.11

LTE Band 41 PC2 as PCC

Table 25
Output Powers – Ant 4A

PCC													SCS 1				SCS 2				SCS 3				SCS 4				Power				
Combination	PCC Band	PCC BW [MHz]	PCC [DL] Freq. [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC LPR RB	PCC LPR RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA	LTE Single Carrier Tx Power	
CA 144A (44A) (1)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																16.80	15.80	
CA 144A (44A)	LTE B41 PCC	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																	16.80	15.80
CA 144A (44A)	LTE B41 PCC2	20	40185	2549.5	15QAM	1	0	40185	2549.5	4aa	LTE B41 PCC2	20	41490	2680	4aa																		

1.4.12

LTE Band 48 as PCC

Table 26
Output Powers – Ant 3

[illegible]

FCC ID: BCGA2232	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/20/2019-2/05/2020	DUT Type: Tablet Device	APPENDIX F: Page 14 of 16

1.5 Downlink Carrier Aggregation with Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

1.5.1 DL Carrier Aggregation RF Conducted Powers

1.5.1.1 LTE Band 41

Table 27
Output Powers – Ant 4A

Combination	PCC Band	PCC					SCC 1					SCC 2					SCC 3					SCC 4					ULCA Tx Power with add'l CA config. active (dBm)	ULCA Tx Power (dBm)	
		PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC DL RB Channel	SCC BW [MHz]	SCC [MHz]	Mod.	SCC UL RB Offset	SCC DL RB Channel	SCC BW [MHz]	SCC [MHz]	Mod.	SCC UL RB Offset	SCC DL RB Channel	SCC BW [MHz]	SCC [MHz]	Mod.	SCC UL RB Offset	SCC DL RB Channel	SCC BW [MHz]	SCC [MHz]	Mod.	SCC UL RB Offset	SCC DL RB Channel			
CA 41C-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41D-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41E-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41F-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41G-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41H-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41I-41A	1.8E B41	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14

1.5.1.2 LTE Band 41 PC2

Table 28
Output Powers – Ant 4A

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				ULCA Tx Power with add'l CA config. active (dBm)	ULCA Tx Power (dBm)		
		PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset					
CA 41C-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41D-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41E-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41F-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41G-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41H-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14
CA 41I-41A	1.8E B41 PC2	20	40100	256Q-QAM	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	20	0	40100	256Q-QAM	19.14	19.14

1.5.2 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

1.5.2.1 LTE Band 41

Table 29
Output Powers – Ant 4A

Combination	PCC Band	PCC										SCC 1										SCC 2										SCC 3										SCC 4										ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]			PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]	Mod.	PCC UL RB Offset	PCC [MHz]	PCC BW [MHz]	PCC [MHz]

FCC ID: BCGA2232	 PCTEST PCTEST is a part of PCTEST	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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1.5.2.2 LTE Band 41 PC2

Table 30
Output Powers – Ant 4A

Combination	PCC										SCC 1										SCC 2										SCC 3										SCC 4										Power	
	PCC Band	PCC BW [MHz]	PCC [DL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	Mod.	SCC UL# RB	SCC UL# RB Offset	SCC [DL] Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)										
CA 142E(142E)	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	14.21	14.21										
CA 142E	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	14.21	14.21										
CA 142E(142E)	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	14.21	14.21										
CA 142E(142E)	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	14.21	14.21										
CA 43C(43C)	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	14.21	14.21										
CA 43C(43C)	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	1.8E B41 PC2	20	20850	QPSK	50	0	20850	4x4	14.21	14.21										

1.5.2.3 LTE Band 7

Table 31
Output Powers – Ant 4A

	PCC								SCC 1								Power					
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [UL] Freq. [MHz]	Mod	SCC UL # RB	SCC UL RB Offset	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA 7C	LTE B7	20	20850	2510	QPSK	50	50	2850	2630	4x4	LTE B7	20	21048	25238	QPSK	50	0	3048	26498	4x4	14.21	14.42

FCC ID: BCGA2232



SAR EVALUATION REPORT

Reviewed by:
Quality Manager

Test Dates:
12/20/2019-2/05/2020

DUT Type:
Tablet Device

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APPENDIX G: POWER REDUCTION VERIFICATION

FCC ID: BCGA2232	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device		APPENDIX G Page 1 of 2

The device supports manufacturer's proprietary power reduction mechanism called "Detect Mode" for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used "on-body" or "held in hand" by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

1.1 Main Antenna Power Reduction Verification Summary

Table G-1
Main Antenna Power Reduction Verification

Mode/Band	Antenna	Maximum Scenario Maximum Allowed Target Power [dBm]	Reduced Scenario Maximum Allowed Target Power [dBm]	Conducted Power [dBm]			Verdict
				Maximum	Test Case 1	Test Case 2	
GPRS 850 (2 Tx)	1	30.00 (± 0.75)	25.95 (± 0.75)	30.16	26.33	26.30	PASS
	3	31.50 (± 0.75)	27.25 (± 0.75)	31.75	26.89	26.88	PASS
	2a	26.50 (± 0.75)	20.25 (± 0.75)	26.52	19.84	19.83	PASS
	2b	26.50 (± 0.75)	19.25 (± 0.75)	27.13	19.90	19.91	PASS
GPRS 1900 (2 Tx)	4a	28.50 (± 0.75)	19.55 (± 0.75)	28.19	19.30	19.31	PASS
	4b	29.00 (± 0.75)	18.75 (± 0.75)	29.15	19.11	19.09	PASS
WCDMA B5	1	24.00 (± 0.5)	20.20 (± 0.5)	24.18	20.68	20.67	PASS
	3	25.20 (± 0.5)	21.30 (± 0.5)	25.68	20.80	20.80	PASS
WCDMA B4	2a	22.50 (± 0.5)	15.40 (± 0.5)	22.87	15.62	15.61	PASS
	2b	22.75 (± 0.5)	14.10 (± 1)	23.23	14.67	14.65	PASS
WCDMA B2	4a	24.50 (± 0.5)	13.80 (± 1)	24.61	14.30	14.29	PASS
	4b	25.20 (± 0.5)	12.90 (± 1)	25.70	13.15	13.13	PASS
LTE Band 12	2a	22.50 (± 0.5)	14.00 (± 1)	22.24	14.00	14.00	PASS
	2b	22.75 (± 0.5)	13.00 (± 1)	23.25	14.00	14.00	PASS
LTE Band 17	4a	24.50 (± 0.5)	13.80 (± 1)	24.51	13.93	13.91	PASS
	4b	25.20 (± 0.5)	12.50 (± 1)	25.53	12.89	12.88	PASS
LTE Band 13	1	24.00 (± 0.5)	20.80 (± 0.5)	24.43	20.95	20.94	PASS
	3	25.20 (± 0.5)	21.30 (± 0.5)	25.21	21.65	21.65	PASS
LTE Band 5	1	24.00 (± 0.5)	20.80 (± 0.5)	24.20	20.77	20.75	PASS
	3	25.20 (± 0.5)	21.00 (± 0.5)	25.15	20.50	20.50	PASS
LTE Band 26	1	24.00 (± 0.5)	20.20 (± 0.5)	24.16	20.36	20.37	PASS
	3	25.20 (± 0.5)	21.00 (± 0.5)	25.33	20.60	20.61	PASS
LTE Band 4	2a	22.50 (± 0.5)	13.90 (± 1)	22.60	14.20	14.21	PASS
	2b	23.00 (± 0.5)	14.10 (± 1)	23.11	14.37	14.38	PASS
LTE Band 66	4a	24.50 (± 0.5)	13.80 (± 1)	24.83	14.58	14.57	PASS
	4b	25.20 (± 0.5)	12.50 (± 1)	25.45	13.12	13.13	PASS
LTE Band 2	2a	22.50 (± 0.5)	13.90 (± 1)	22.87	14.45	14.44	PASS
	2b	23.00 (± 0.5)	14.10 (± 1)	23.29	14.51	14.55	PASS
LTE Band 25	4a	24.50 (± 0.5)	13.80 (± 1)	24.77	14.58	14.57	PASS
	4b	25.20 (± 0.5)	12.50 (± 1)	25.46	13.14	13.17	PASS
LTE Band 30	2a	22.50 (± 0.5)	14.00 (± 1)	22.36	14.00	14.02	PASS
	2b	23.00 (± 0.5)	13.00 (± 1)	23.50	14.00	13.99	PASS
LTE Band 7	4a	24.50 (± 0.5)	13.80 (± 1)	24.55	13.80	13.80	PASS
	4b	25.20 (± 0.5)	12.50 (± 1)	25.63	13.50	13.50	PASS
LTE Band 41 (PC3)	2a	22.50 (± 0.5)	14.00 (± 1)	22.54	14.12	14.13	PASS
	2b	23.00 (± 0.5)	13.00 (± 1)	23.50	14.00	14.00	PASS
LTE Band 41 (PC2)	4a	24.50 (± 0.5)	13.80 (± 1)	24.48	13.80	13.80	PASS
	4b	25.20 (± 0.5)	12.50 (± 1)	25.70	13.50	13.49	PASS
LTE Band 48	2a	21.70 (± 0.5)	13.00 (± 1)	22.02	13.02	13.00	PASS
	2b	22.75 (± 0.5)	12.10 (± 1)	23.23	12.57	12.59	PASS
LTE Band 7	4a	21.90 (± 0.5)	12.50 (± 1)	22.37	12.56	12.53	PASS
	4b	22.00 (± 0.5)	12.90 (± 1)	22.43	12.84	12.85	PASS
LTE Band 41 (PC3)	2a	22.50 (± 0.5)	13.10 (± 1)	22.78	13.55	13.57	PASS
	2b	22.50 (± 0.5)	10.80 (± 1)	22.89	11.80	11.80	PASS
LTE Band 41 (PC2)	4a	24.50 (± 0.5)	13.60 (± 1)	24.43	13.60	13.60	PASS
	4b	25.20 (± 0.5)	11.50 (± 1)	25.44	12.00	12.01	PASS
LTE Band 41 (PC3)	2a	22.00 (± 0.5)	15.90 (± 0.5)	21.88	15.68	15.67	PASS
	2b	22.50 (± 0.5)	12.80 (± 1)	22.82	13.30	13.28	PASS
LTE Band 41 (PC2)	4a	25.00 (± 0.5)	16.40 (± 0.5)	24.92	16.04	16.05	PASS
	4b	25.20 (± 0.5)	13.80 (± 1)	25.44	14.80	14.80	PASS
LTE Band 41 (PC2)	2a	25.00 (± 0.5)	15.90 (± 0.5)	24.87	15.92	15.91	PASS
	2b	24.50 (± 0.5)	12.80 (± 1)	24.83	13.30	13.30	PASS
LTE Band 48	4a	27.50 (± 0.5)	16.40 (± 0.5)	27.57	16.18	16.17	PASS
	4b	28.20 (± 0.5)	13.80 (± 1)	28.50	14.80	14.80	PASS
LTE Band 48	1	21.50 (± 0.5)	15.00 (± 0.5)	21.54	15.14	15.12	PASS
	3	24.50 (± 0.5)	17.00 (± 0.5)	24.88	17.11	17.12	PASS
LTE B5 Intra-band ULCA	2b	21.50 (± 0.5)	13.80 (± 1)	21.84	14.64	14.65	PASS
	4b	25.20 (± 0.5)	15.90 (± 0.5)	25.56	15.51	15.52	PASS
LTE B7 Intra-band ULCA	1	22.50 (± 1)	19.70 (± 1)	22.89	20.21	20.22	PASS
	3	24.00 (± 1)	20.50 (± 1)	24.51	20.20	20.22	PASS
LTE B41 (PC3) Intra-band ULCA	2a	21.00 (± 1)	13.10 (± 1)	20.99	12.90	12.89	PASS
	2b	20.50 (± 1)	10.80 (± 1)	21.31	11.33	11.34	PASS
LTE B41 (PC2) Intra-band ULCA	4a	23.50 (± 1)	13.60 (± 1)	23.05	13.25	13.21	PASS
	4b	24.00 (± 1)	11.50 (± 1)	23.75	11.25	11.23	PASS
LTE B41 (PC3) Intra-band ULCA	2a	20.00 (± 1)	15.40 (± 1)	20.50	15.13	15.11	PASS
	2b	20.50 (± 1)	12.80 (± 1)	21.50	13.58	13.57	PASS
LTE B41 (PC2) Intra-band ULCA	4a	23.50 (± 1)	15.90 (± 1)	22.68	14.93	15.00	PASS
	4b	24.00 (± 1)	13.80 (± 1)	24.55	14.78	14.79	PASS
LTE B41 (PC2) Intra-band ULCA	2a	21.50 (± 1)	15.40 (± 1)	20.84	15.13	15.11	PASS
	2b	22.50 (± 1)	12.80 (± 1)	21.89	11.80	11.80	PASS
LTE B41 (PC2) Intra-band ULCA	4a	25.50 (± 1)	15.90 (± 1)	24.88	15.98	15.99	PASS
	4b	26.00 (± 1)	13.80 (± 1)	25.54	14.54	14.56	PASS

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper, are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

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APPENDIX H: IEEE 802.11AX RU SAR EXCLUSION

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1.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T and 996T.

Per FCC Guidance, 802.11ax was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

1.2 IEEE 802.11ax RU Target Powers

1.2.1 Maximum 802.11ax RU WLAN Output Power

A. Antenna 2A										
Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		2	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		3	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		4	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		5	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		6	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		7	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		8	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		9	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		10	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		11	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		12	8.00	6.50	8.00	6.50	8.00	6.50	8.00	6.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		2	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		3	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		4	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		5	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		6	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		7	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		8	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		9	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		10	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		11	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
		12	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

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B. Antenna 4A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00
		2	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		3	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		4	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		5	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		6	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		7	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		8	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		9	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		10	13.50	12.00	13.50	12.00	13.50	12.00	13.50	12.00
		11	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		12	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		2	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		3	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		4	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		5	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		6	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		7	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		8	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		9	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		11	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		12	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

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C. 5GHz ANTlower

Mode/ Band		Tones	26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTlower	20 MHz Bandwidth	36	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50				
		40	11.00	9.50	14.00	12.50	17.00	15.50	17.00	15.50				
		44	11.00	9.50	14.00	12.50	17.00	15.50	17.00	15.50				
		48	11.00	9.50	14.00	12.50	17.00	15.50	17.00	15.50				
		52	11.00	9.50	14.00	12.50	16.75	15.25	16.75	15.25				
		56	11.00	9.50	14.00	12.50	16.75	15.25	16.75	15.25				
		60	11.00	9.50	14.00	12.50	16.75	15.25	16.75	15.25				
		64	11.00	9.50	14.00	12.50	14.00	12.50	14.00	12.50				
		100	11.00	9.50	14.00	12.50	14.00	12.50	14.00	12.50				
		104	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		108	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		112	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		116	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		120	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		124	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		128	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		132	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		136	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		140	10.00	8.50	11.50	10.00	11.50	10.00	11.50	10.00				
		144	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00				
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00				
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00				
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00				
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00				
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00				
	40 MHz Bandwidth	38	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		46	11.00	9.50	14.00	12.50	17.00	15.50	17.00	15.50	17.00	15.50		
		54	11.00	9.50	14.00	12.50	16.75	15.25	16.75	15.25	16.75	15.25		
		62	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		102	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50		
		110	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00	15.50	14.00		
		118	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00	15.50	14.00		
		126	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00	15.50	14.00		
		134	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00	13.50		
		142	11.00	9.50	14.00	12.50	15.50	14.00	11.50	10.00	15.50	14.00		
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00		
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00		
	80 MHz Bandwidth	42	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		58	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		106	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		122	11.00	9.50	14.00	12.50	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		138	11.00	9.50	14.00	12.50	15.50	14.00	11.50	10.00	15.00	13.50	15.50	14.00
		155	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00

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