

Annex A. Plots of SAR and Power Density System Verification

The plots for system verification are shown as follows.

S01 System Check_H2450_210916

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 835

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

Medium: H19T27N1_0916 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.857$ S/m; $\epsilon_r = 38.122$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(7.61, 7.61, 7.61) @ 2450 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.51 W/kg

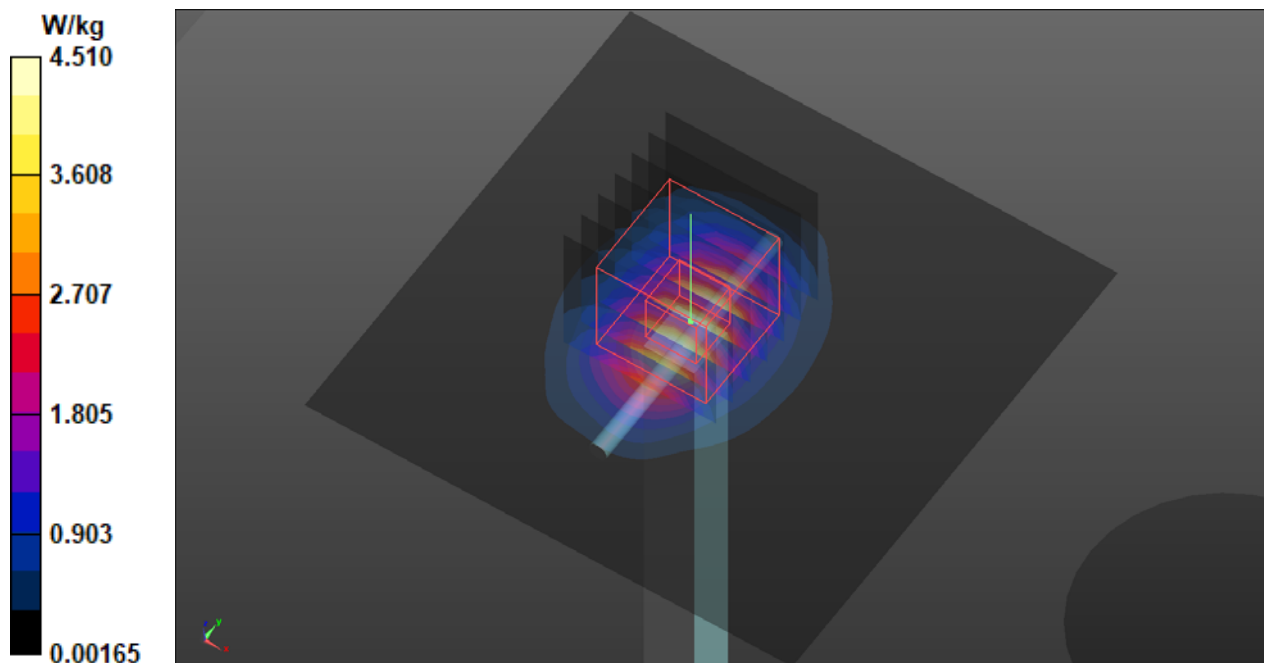
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.58 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 5.85 W/kg

SAR(1 g) = 2.76 W/kg; SAR(10 g) = 1.32 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.71 W/kg



S02 System Check_H5250_210916

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

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

Medium: H34T60N1_0916 Medium parameters used (interpolated): $f = 5250$ MHz; $\sigma = 4.912$ S/m; $\epsilon_r = 35.831$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(5.5, 5.5, 5.5) @ 5250 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 10.7 W/kg

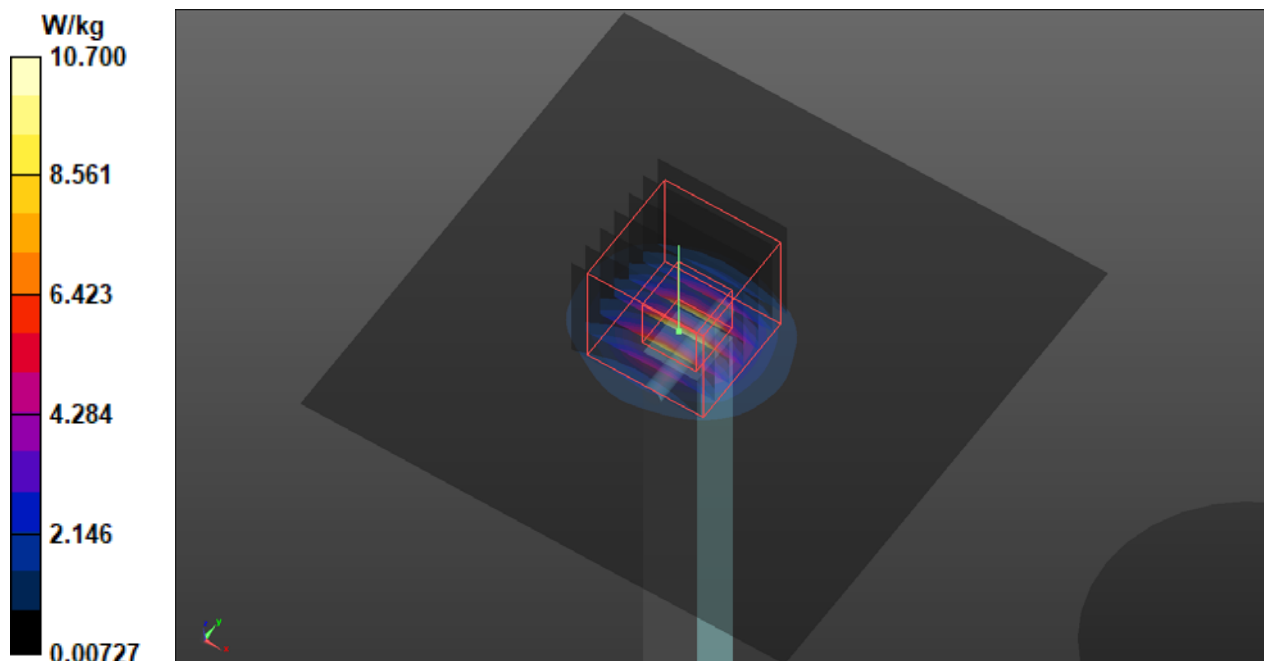
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.05 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 4.32 W/kg; SAR(10 g) = 1.21 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 11.0 W/kg



S03 System Check_H5600_210916

DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

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

Medium: H34T60N1_0916 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.26$ S/m; $\epsilon_r = 35.277$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(4.8, 4.8, 4.8) @ 5600 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 11.5 W/kg

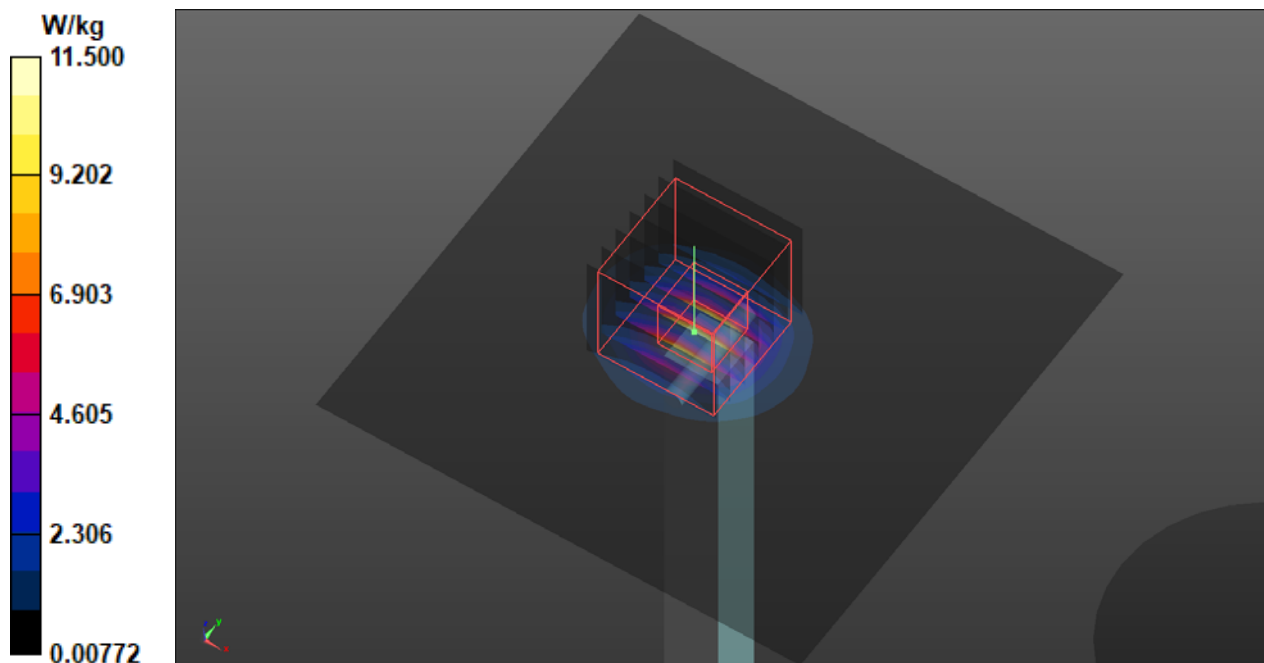
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.38 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 4.46 W/kg; SAR(10 g) = 1.24 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 11.7 W/kg



S04 System Check_H5750_210916**DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019**

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

Medium: H34T60N1_0916 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.428$ S/m; $\epsilon_r = 34.929$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 10.2 W/kg

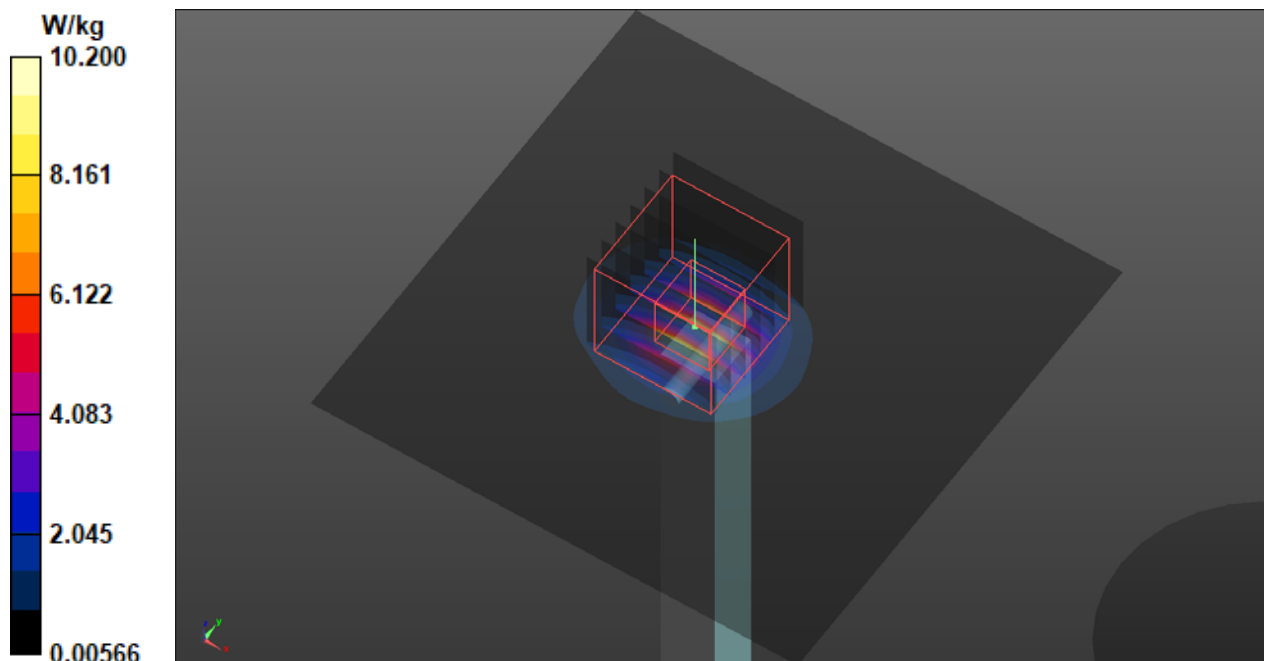
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.90 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.5 W/kg



S05 System Check_H2450_210621**DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737**

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

Medium: H19T27N1_0621 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 37.958$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.87, 7.87, 7.87) @ 2450 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2021/03/24
- Phantom: ELI Phantom_1245; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 4.07 W/kg

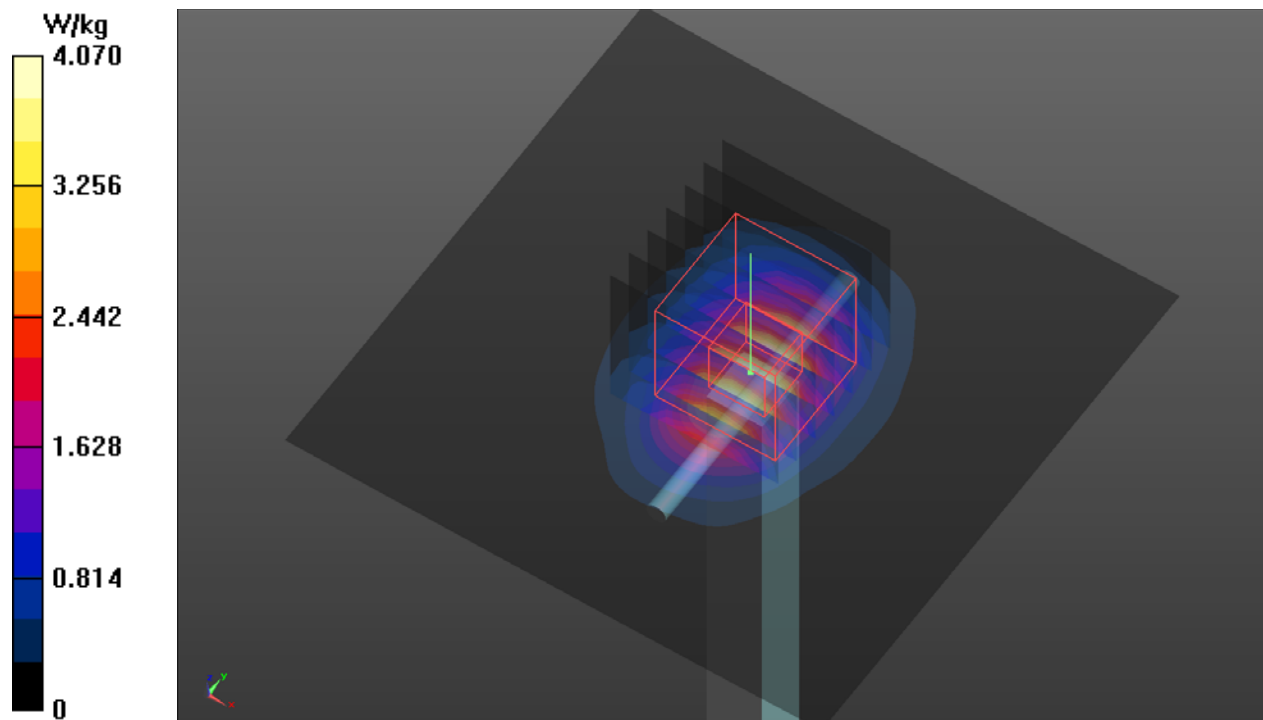
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.69 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 5.14 W/kg

SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.20 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.17 W/kg



Measurement Report for Device

S06S System Check_H6.5GHz_210807

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Speag 6.5GHz System Valisation Kit	50.0 x 10.0 x 8.0		6.5GHzV2 Valisation Kit

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	,		UID 0	6500.0,	5.65	6.21	33.7

Hardware Setup

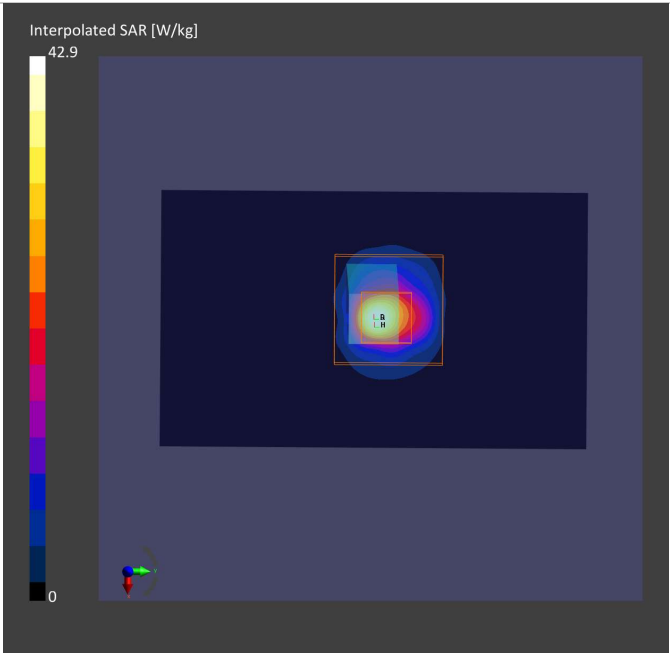
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2105	H50T72N1 , 2021-Aug-07	EX3DV4 - SN7554, 2020-09-28	DAE4 Sn915, 2021-06-02

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2021-08-07	2021-08-07
psSAR1g [W/Kg]	24.7	31.2
psSAR10g [W/Kg]	5.20	5.74
Power Drift [dB]	0.02	0.00
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		4.8



Test Lab: Bureau Veritas ADT SAR/HAC/PD Testing Lab

Power Density Plot No.:

S06P_PD_System Check_10 GHz_2021.08.04

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SPEAG, 5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1025	-

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5GAir	FRONT 10.00	Validation band	CW	10000.0	1.0

Hardware Setup

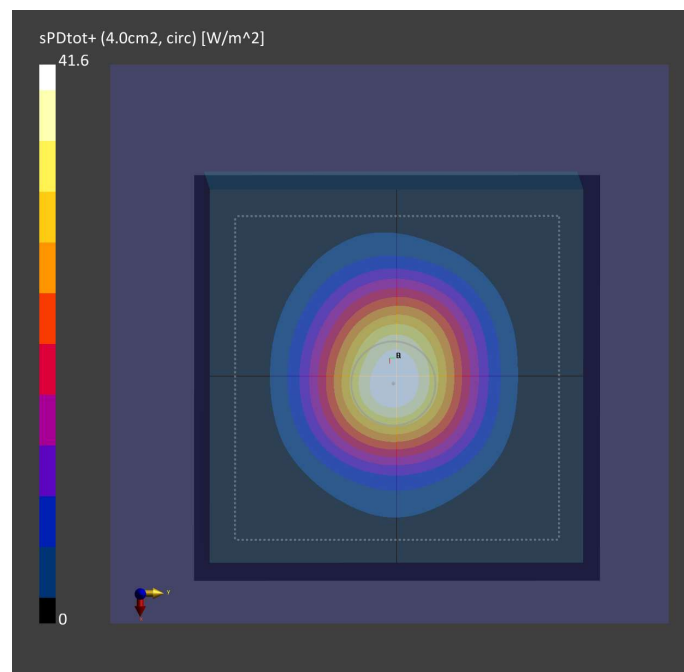
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	--Air--	EUmmWV3 - SN9361_F1-78GHz, 2020-09-24	DAE4 Sn915, 2021-06-02

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

Measurement Results

	5G Scan
Date	2021-08-04
Avg. Area [cm ²]	4.00
pStotavg[W/m ²]	41.6
pS _n avg [W/m ²]	41.4
E _{peak} [V/m]	135
Power Drift [dB]	0.03



Annex B. Plots of SAR and Power Density Measurement

The plots for highest measured SAR and Power Density in each exposure configuration, wireless mode and frequency band combination are shown as follows.

P01 WLAN2.4G_802.11b_Bottom Side _5mm_Ch1_Ant 0+1**DUT: BARR-WTW-P21060023**

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0916 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 38.262$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(7.61, 7.61, 7.61) @ 2412 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (51x201x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.989 W/kg

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

Reference Value = 25.19 V/m; Power Drift = -0.15 dB

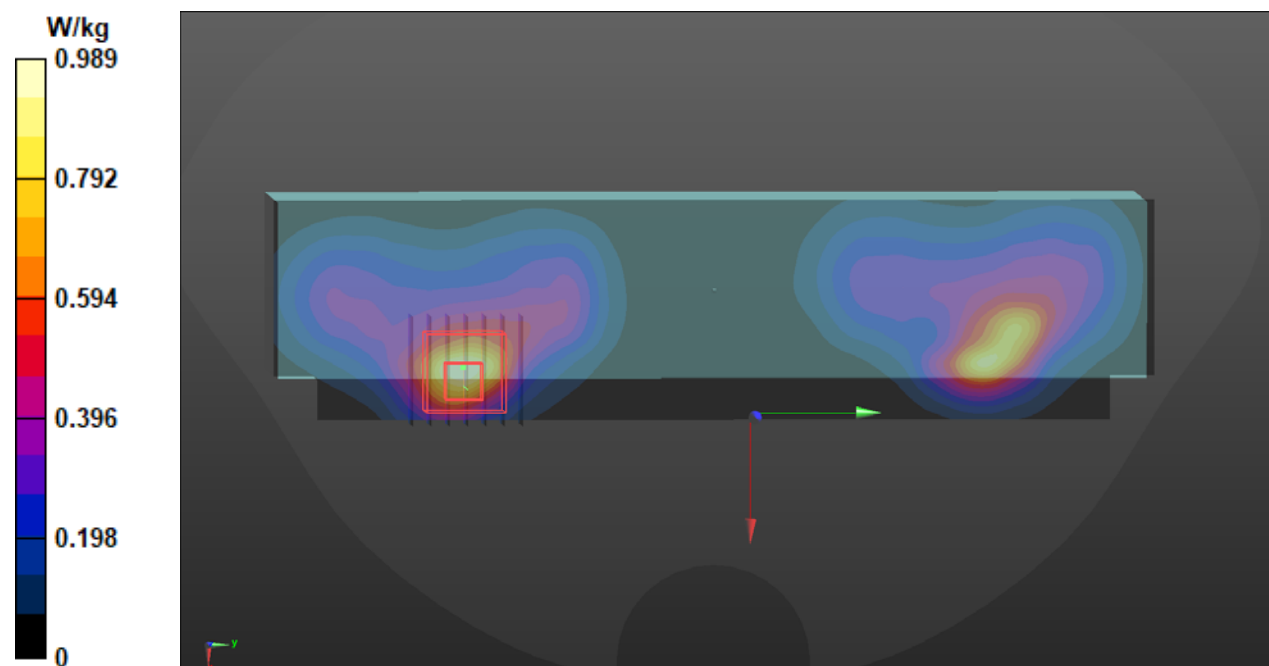
Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.311 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 45%

Maximum value of SAR (measured) = 1.17 W/kg



P02 WLAN5.3G_802.11ac VHT160_Bottom Side_5mm_Ch50_Ant 0+1**DUT: BARR-WTW-P21060023**

Communication System: UID 10554 - AAD, IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0916 Medium parameters used (interpolated): $f = 5250$ MHz; $\sigma = 4.912$ S/m; $\epsilon_r = 35.831$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(5.5, 5.5, 5.5) @ 5250 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.63 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.08 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.254 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 64.5%

Maximum value of SAR (measured) = 1.65 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.08 V/m; Power Drift = -0.17 dB

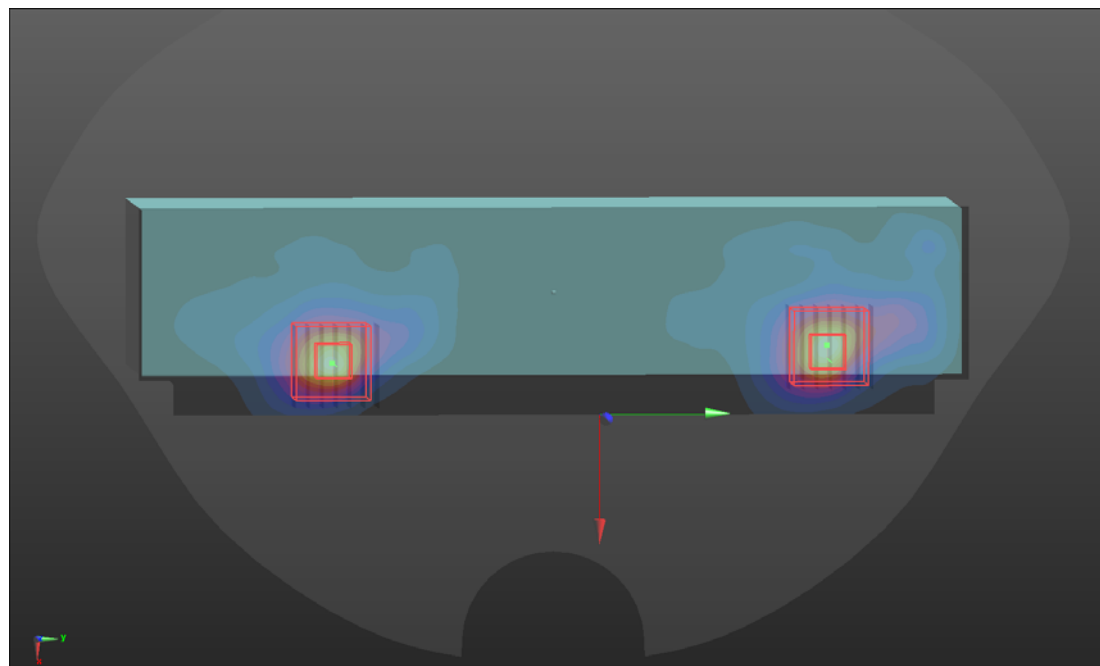
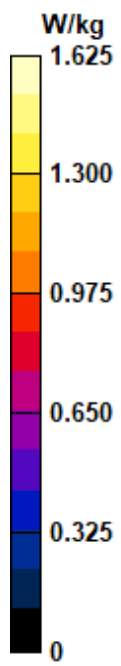
Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.243 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 64.3%

Maximum value of SAR (measured) = 1.60 W/kg



P03 WLAN5.6G_802.11ac VHT160_Bottom Side _5mm_Ch114_Ant 1**DUT: BARR-WTW-P21060023**

Communication System: UID 10554 - AAD, IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5570 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0916 Medium parameters used (interpolated): $f = 5570$ MHz; $\sigma = 5.247$ S/m; $\epsilon_r = 35.316$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(4.8, 4.8, 4.8) @ 5570 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.94 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 20.86 V/m; Power Drift = -0.06 dB

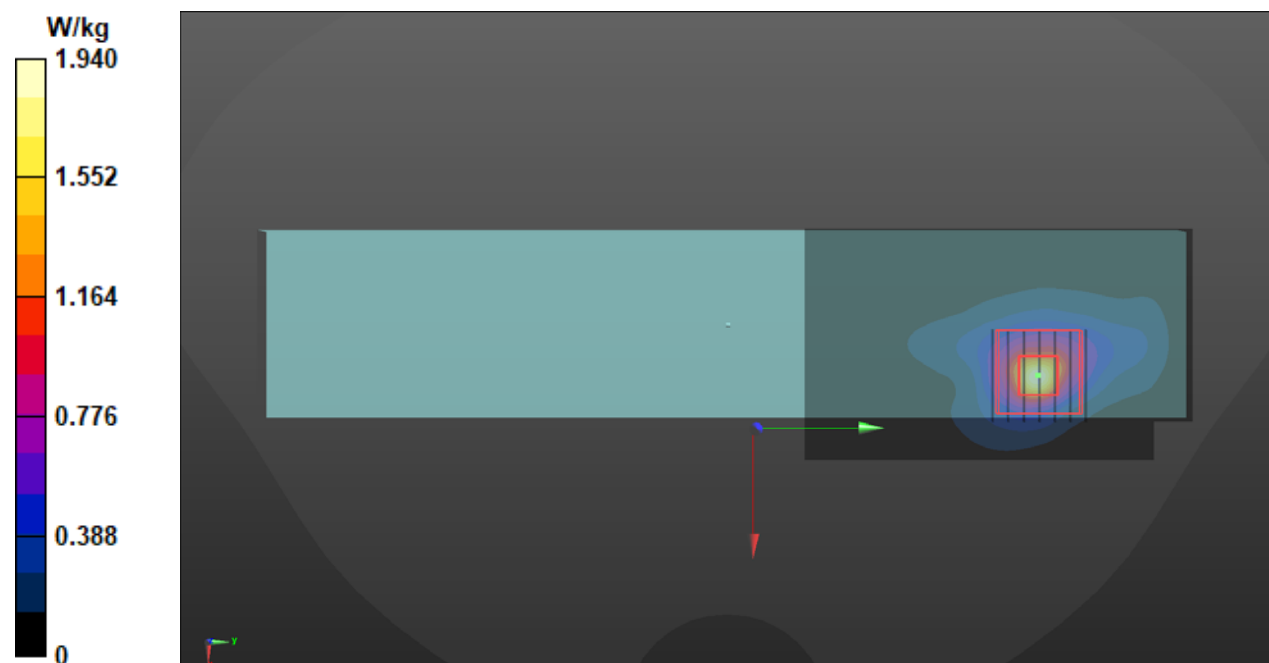
Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 0.748 W/kg; SAR(10 g) = 0.237 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 61.8%

Maximum value of SAR (measured) = 1.92 W/kg



P04 WLAN5.8G_802.11ac VHT80_Bottom Side _5mm_Ch155_Ant 0+1**DUT: BARR-WTW-P21060023**

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: H34T60N1_0916 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.466$ S/m; $\epsilon_r = 34.955$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 23.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7537; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: SAM Phantom_1987; Type: QD 000 P41 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (61x241x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.06 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 21.20 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.248 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 2.02 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 21.20 V/m; Power Drift = -0.07 dB

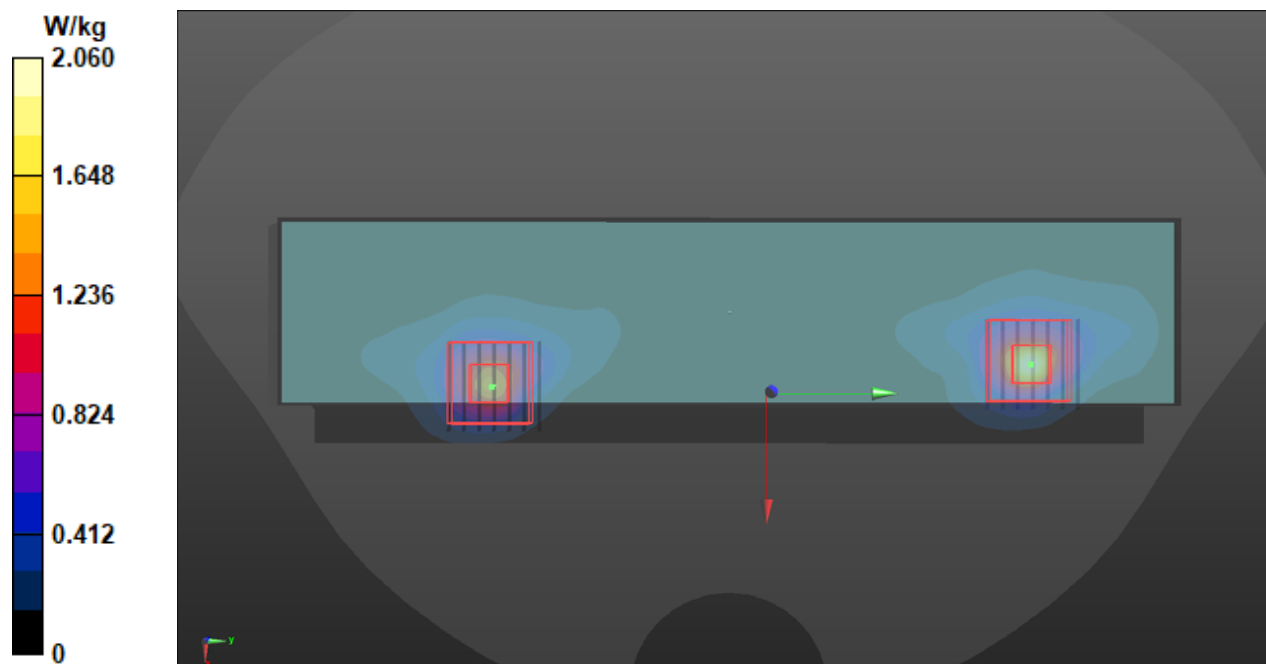
Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.213 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%

Maximum value of SAR (measured) = 1.62 W/kg



P05 BT_BR_EDR_Bottom Side_5mm_Ch78_Ant 1**DUT: BARR-WTW-P21060023**

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2480 MHz; Duty Cycle: 1:1.3

Medium: H19T27N1_0621 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 37.889$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3971; ConvF(7.87, 7.87, 7.87) @ 2480 MHz; Calibrated: 2021/01/27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1431; Calibrated: 2021/03/24
- Phantom: ELI Phantom_1245; Type: QDOVA002AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x111x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.488 W/kg

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

Reference Value = 15.70 V/m; Power Drift = -0.18 dB

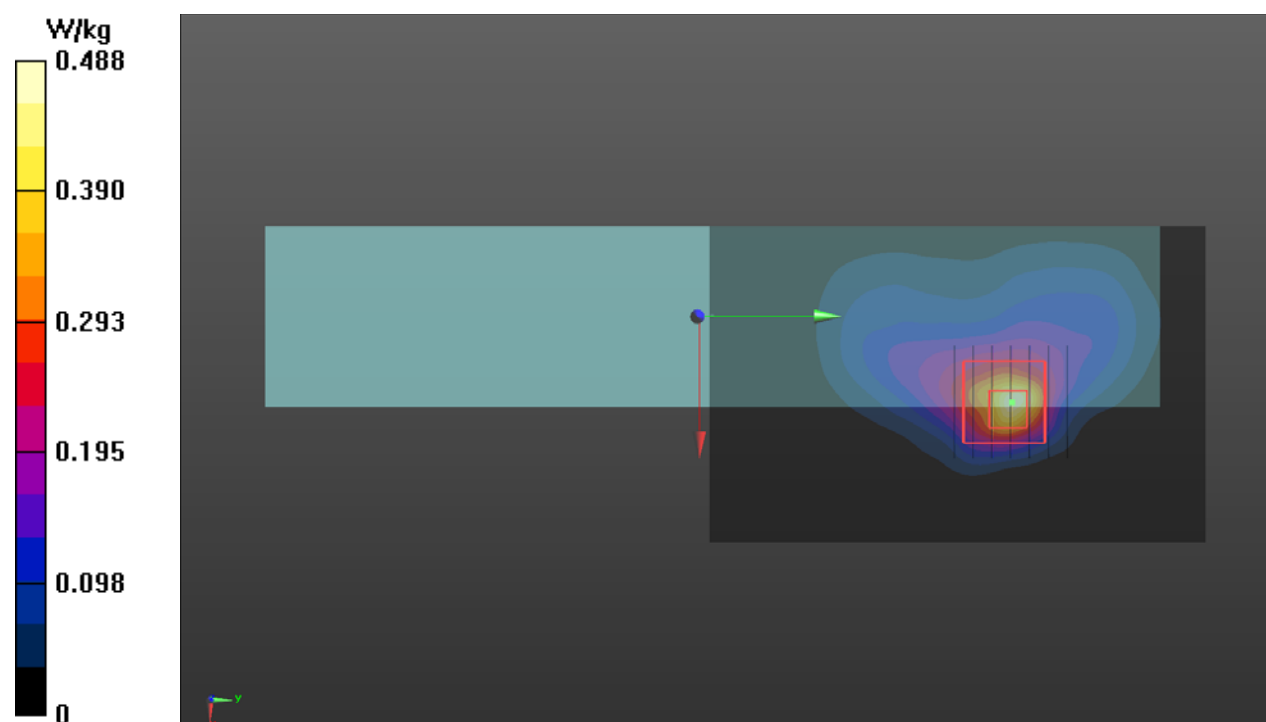
Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.129 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 40.8%

Maximum value of SAR (measured) = 0.496 W/kg



P06S UNII-8_802.11ax HE160_Bottom Side_5mm_Ch207_Ant 0+1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BARR-WTW-P21060023,	237.0 x 48.0 x 74.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Bottom Side, 5.00	U-NII-8	WLAN, 10743-AAC	6985.0,	5.6	6.51	32.8

Hardware Setup

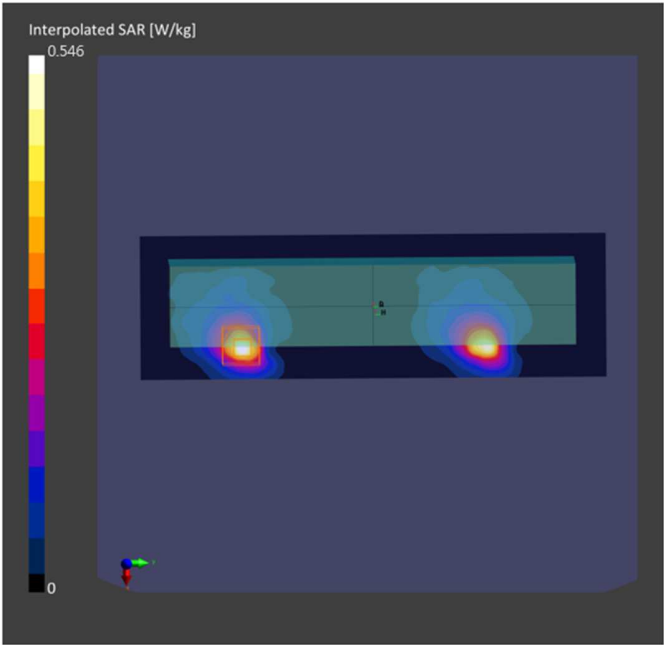
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2105	H50T72N1 , 2021-Aug-07	EX3DV4 - SN7554, 2020-09-28	DAE4 Sn915, 2021-06-02

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	85.0 x 272.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2021-08-07	2021-08-07
psSAR1g [W/Kg]	0.419	0.431
psSAR10g [W/Kg]	0.196	0.201
Power Drift [dB]	0.06	-0.09



Power Density Plot No.:

P06P UNII-8_802.11ax HE160_Bottom Side_5mm_Ch207_Ant0+1

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEDW-WTW-P21060023	230.0 x 48.0 x 70.0		Module

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5GAir	Bottom Side 5.00	U-NII-8	WLAN 10755-AAC	6985 207	1.0

Hardware Setup

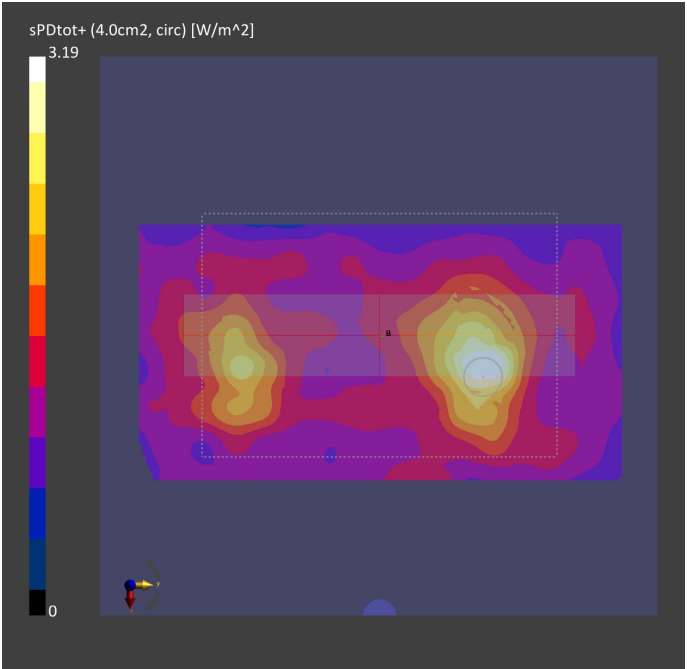
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1030	Air---	EUmmWV3 - SN9361_F1-78GHz, 2020-09-24	DAE4 Sn915, 2021-06-02

Scan Setup

	5G Scan
Grid Extents [mm]	220.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.0

Measurement Results

	5G Scan
Date	2021-08-04
Avg. Area [cm²]	4.00
pStotavg[W/m²]	3.19
pSnavg [W/m²]	3.03
E_peak [V/m]	51.8
Power Drift [dB]	-0.11



Annex C. Tissue & System Verification

The measuring results for tissue simulating liquid and system check are shown as below.

Note:

1. For Section 4.3, the dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within $\pm 10\%$ of the target values. Liquid temperature during the SAR testing has kept within $\pm 2^\circ\text{C}$.
2. For Section 4.4, The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.
3. For Section 4.5, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Annex A of this report.

Tissue Verification									Validation for CW			Validation for Modulation				System Validation					Note		
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Targeted Conductivity (σ)	Targeted Permittivity (ε _r)	Deviation Conductivity (σ)	Deviation Permittivity (ε _r)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 1g SAR (W/kg)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
S01	2450	23.2	1.857	38.122	1.8	39.2	3.17	-2.75	Pass	Pass	Pass	OFDM	N/A	Pass	Sep. 16, 2021	2450	51.60	2.76	55.20	6.98	835	7537	1585
S02	5250	23.2	4.912	35.831	4.71	35.9	4.29	-0.19	Pass	Pass	Pass	OFDM	N/A	Pass	Sep. 16, 2021	5250	80.60	4.32	86.40	7.20	1019	7537	1585
S03	5600	23.2	5.26	35.277	5.07	35.5	3.75	-0.63	Pass	Pass	Pass	OFDM	N/A	Pass	Sep. 16, 2021	5600	82.40	4.46	89.20	8.25	1019	7537	1585
S04	5750	23.2	5.428	34.929	5.22	35.4	3.98	-1.33	Pass	Pass	Pass	OFDM	N/A	Pass	Sep. 16, 2021	5750	79.40	4.12	82.40	3.78	1019	7537	1585
S05	2450	23.4	1.867	37.958	1.8	39.2	3.72	-3.17	Pass	Pass	Pass	OFDM	N/A	Pass	Jun. 21, 2021	2450	51.60	2.48	49.60	-3.88	737	3971	1431
S06S	6500	23.1	6.21	33.7	6.07	34.5	2.31	-2.32	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 07, 2021	6500	285.00	31.2	312.00	9.47	1008	7554	915

Plot No.	Test Date	Frequency [GHz]	mmWave Probe S/N	Verification Source S/N	Averaging Area [cm ²]	Distance [mm]	Target Power Density [W/m ²]	Measured Power Density [W/m ²]	Deviation [%]
S06P	Aug. 04, 2021	10	9361	1025	4	10.0	42.7	41.6	-2.58%

Annex D. Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

WLAN Tune-up Power (Full)							
WLAN2.4GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11b	1	2412	15.5	15.5	15.5	15.5	18.5
	6	2437	15.5	15.5	15.5	15.5	18.5
	11	2462	15.5	15.5	15.5	15.5	18.5
	12	2467	15.5	15.5	15.5	15.5	18.5
	13	2472	15.5	15.5	15.5	15.5	18.5
802.11g	1	2412	15.5	15.5	15.5	15.5	18.5
	6	2437	15.5	15.5	15.5	15.5	18.5
	11	2462	15.5	15.5	15.5	15.5	18.5
	12	2467	15.5	15.5	15.5	15.5	18.5
	13	2472	13.0	13.0	13.0	13.0	16.0
802.11ac VHT20	1	2412	15.5	15.5	15.5	15.5	18.5
	6	2437	15.5	15.5	15.5	15.5	18.5
	11	2462	15.5	15.5	15.5	15.5	18.5
	12	2467	14.0	14.0	14.0	14.0	17.0
	13	2472	11.0	11.0	11.0	11.0	14.0
802.11ac VHT40	3	2422	15.5	15.5	14.0	14.0	17.0
	6	2437	15.5	15.5	14.0	14.0	17.0
	9	2452	15.5	15.5	14.0	14.0	17.0
	10	2457	14.0	14.0	14.0	14.0	17.0
	11	2462	11.0	11.0	11.0	11.0	14.0
802.11ax HE20	1	2412	15.5	15.5	15.5	15.5	18.5
	6	2437	15.5	15.5	15.5	15.5	18.5
	11	2462	15.5	15.5	15.5	15.5	18.5
	12	2467	14.0	14.0	14.0	14.0	17.0
	13	2472	11.0	11.0	11.0	11.0	14.0
802.11ax HE40	3	2422	15.5	15.5	15.5	15.5	18.5
	6	2437	15.5	15.5	15.5	15.5	18.5
	9	2452	15.5	15.5	15.5	15.5	18.5
	10	2457	14.0	14.0	14.0	14.0	17.0
	11	2462	11.0	11.0	11.0	11.0	14.0

WLAN Tune-up Power (Full)			
Bluetooth			
Mode	Channel	Frequency	Ant 1 Max Tune-up
BR / EDR	0	2402	13.0
	39	2441	13.0
	78	2480	13.0
LE	0	2402	12.0
	19	2440	12.0
	39	2480	12.0

WLAN Tune-up Power (Full)							
WLAN 5.2GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	36	5180	16.0	16.0	16.0	16.0	19.0
	40	5200	16.0	16.0	16.0	16.0	19.0
	44	5220	16.0	16.0	16.0	16.0	19.0
	48	5240	16.0	16.0	16.0	16.0	19.0
802.11ac VHT20	36	5180	16.0	16.0	16.0	16.0	19.0
	40	5200	16.0	16.0	16.0	16.0	19.0
	44	5220	16.0	16.0	16.0	16.0	19.0
	48	5240	16.0	16.0	16.0	16.0	19.0
802.11ac VHT40	38	5190	16.0	16.0	16.0	16.0	19.0
	46	5230	16.0	16.0	16.0	16.0	19.0
802.11ac VHT80	42	5210	14.0	14.0	14.0	14.0	17.0
802.11ax HE20	36	5180	16.0	16.0	16.0	16.0	19.0
	40	5200	16.0	16.0	16.0	16.0	19.0
	44	5220	16.0	16.0	16.0	16.0	19.0
	48	5240	16.0	16.0	16.0	16.0	19.0
802.11ax HE40	38	5190	16.0	16.0	16.0	16.0	19.0
	46	5230	16.0	16.0	16.0	16.0	19.0
802.11ax HE80	42	5210	14.0	14.0	14.0	14.0	17.0

WLAN Tune-up Power (Full)							
WLAN 5.3GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	52	5260	16.0	16.0	16.0	16.0	19.0
	56	5280	16.0	16.0	16.0	16.0	19.0
	60	5300	16.0	16.0	16.0	16.0	19.0
	64	5320	16.0	16.0	16.0	16.0	19.0
802.11ac VHT20	52	5260	16.0	16.0	16.0	16.0	19.0
	56	5280	16.0	16.0	16.0	16.0	19.0
	60	5300	16.0	16.0	16.0	16.0	19.0
	64	5320	16.0	16.0	16.0	16.0	19.0
802.11ac VHT40	54	5270	16.0	16.0	16.0	16.0	19.0
	62	5310	16.0	16.0	16.0	16.0	19.0
802.11ac VHT80	58	5290	15.0	15.0	15.0	15.0	18.0
802.11ac VHT160	50	5250	16.0	16.0	16.0	16.0	19.0
802.11ax HE20	52	5260	16.0	16.0	16.0	16.0	19.0
	56	5280	16.0	16.0	16.0	16.0	19.0
	60	5300	16.0	16.0	16.0	16.0	19.0
	64	5320	16.0	16.0	16.0	16.0	19.0
802.11ax HE40	54	5270	16.0	16.0	16.0	16.0	19.0
	62	5310	16.0	16.0	16.0	16.0	19.0
802.11ax HE80	58	5290	15.0	15.0	15.0	15.0	18.0
802.11ax HE160	50	5250	16.0	16.0	16.0	16.0	19.0

WLAN Tune-up Power (Full)							
WLAN 5.6GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	100	5500	14.0	14.0	14.0	14.0	17.0
	116	5580	14.0	14.0	14.0	14.0	17.0
	120	5600	14.0	14.0	14.0	14.0	17.0
	124	5620	14.0	14.0	14.0	14.0	17.0
	132	5660	14.0	14.0	14.0	14.0	17.0
	140	5700	14.0	14.0	14.0	14.0	17.0
	144	5720	14.0	14.0	14.0	14.0	17.0
802.11ac VHT20	100	5500	14.0	14.0	14.0	14.0	17.0
	116	5580	14.0	14.0	14.0	14.0	17.0
	120	5600	14.0	14.0	14.0	14.0	17.0
	124	5620	14.0	14.0	14.0	14.0	17.0
	132	5660	14.0	14.0	14.0	14.0	17.0
	140	5700	14.0	14.0	14.0	14.0	17.0
	144	5720	14.0	14.0	14.0	14.0	17.0
802.11ac VHT40	102	5510	14.0	14.0	14.0	14.0	17.0
	110	5550	14.0	14.0	14.0	14.0	17.0
	118	5590	14.0	14.0	14.0	14.0	17.0
	126	5630	14.0	14.0	14.0	14.0	17.0
	134	5670	14.0	14.0	14.0	14.0	17.0
	142	5710	14.0	14.0	14.0	14.0	17.0
802.11ac VHT80	106	5530	14.0	14.0	14.0	14.0	17.0
	122	5610	14.0	14.0	14.0	14.0	17.0
	138	5690	14.0	14.0	14.0	14.0	17.0
802.11ac VHT160	114	5570	14.0	14.0	14.0	14.0	17.0
802.11ax HE20	100	5500	14.0	14.0	14.0	14.0	17.0
	116	5580	14.0	14.0	14.0	14.0	17.0
	120	5600	14.0	14.0	14.0	14.0	17.0
	124	5620	14.0	14.0	14.0	14.0	17.0
	132	5660	14.0	14.0	14.0	14.0	17.0
	140	5700	14.0	14.0	14.0	14.0	17.0
	144	5720	14.0	14.0	14.0	14.0	17.0
802.11ax HE40	102	5510	14.0	14.0	14.0	14.0	17.0
	110	5550	14.0	14.0	14.0	14.0	17.0
	118	5590	14.0	14.0	14.0	14.0	17.0
	126	5630	14.0	14.0	14.0	14.0	17.0
	134	5670	14.0	14.0	14.0	14.0	17.0
	142	5710	14.0	14.0	14.0	14.0	17.0
802.11ax HE80	106	5530	14.0	14.0	14.0	14.0	17.0
	122	5610	14.0	14.0	14.0	14.0	17.0
	138	5690	14.0	14.0	14.0	14.0	17.0
802.11ax HE160	114	5570	10.5	14.0	14.0	14.0	17.0

WLAN Tune-up Power (Full)							
WLAN 5.8GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	149	5745	10.5	14.0	14.0	14.0	17.0
	153	5765	10.5	14.0	14.0	14.0	17.0
	157	5785	10.5	14.0	14.0	14.0	17.0
	161	5805	10.5	14.0	14.0	14.0	17.0
	165	5825	10.5	14.0	14.0	14.0	17.0
802.11ac VHT20	149	5745	10.5	14.0	14.0	14.0	17.0
	153	5765	10.5	14.0	14.0	14.0	17.0
	157	5785	10.5	14.0	14.0	14.0	17.0
	161	5805	10.5	14.0	14.0	14.0	17.0
	165	5825	10.5	14.0	14.0	14.0	17.0
802.11ac VHT40	151	5755	10.5	14.0	14.0	14.0	17.0
	159	5795	10.5	14.0	14.0	14.0	17.0
802.11ac VHT80	155	5775	14.0	14.0	14.0	14.0	17.0
802.11ax HE20	149	5745	10.5	14.0	14.0	14.0	17.0
	153	5765	10.5	14.0	14.0	14.0	17.0
	157	5785	10.5	14.0	14.0	14.0	17.0
	161	5805	10.5	14.0	14.0	14.0	17.0
	165	5825	10.5	14.0	14.0	14.0	17.0
802.11ax HE40	151	5755	10.5	14.0	14.0	14.0	17.0
	159	5795	10.5	14.0	14.0	14.0	17.0
802.11ax HE80	155	5775	10.5	14.0	14.0	14.0	17.0

WLAN Tune-up Power (Full)							
UNII-5							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	1	5955	2.0	2.0	2.0	2.0	5.0
	5	5975	2.0	2.0	2.0	2.0	5.0
	9	5995	2.0	2.0	2.0	2.0	5.0
	13	6015	2.0	2.0	2.0	2.0	5.0
	17	6035	2.0	2.0	2.0	2.0	5.0
	21	6055	2.0	2.0	2.0	2.0	5.0
	25	6075	2.0	2.0	2.0	2.0	5.0
	29	6095	2.0	2.0	2.0	2.0	5.0
	33	6115	2.0	2.0	2.0	2.0	5.0
	37	6135	2.0	2.0	2.0	2.0	5.0
	41	6155	2.0	2.0	2.0	2.0	5.0
	45	6175	2.0	2.0	2.0	2.0	5.0
	49	6195	2.0	2.0	2.0	2.0	5.0
	53	6215	2.0	2.0	2.0	2.0	5.0
	57	6235	2.0	2.0	2.0	2.0	5.0
	61	6255	2.0	2.0	2.0	2.0	5.0
	65	6275	2.0	2.0	2.0	2.0	5.0
	69	6295	2.0	2.0	2.0	2.0	5.0
	73	6315	2.0	2.0	2.0	2.0	5.0
	77	6335	2.0	2.0	2.0	2.0	5.0
	81	6355	2.0	2.0	2.0	2.0	5.0
802.11ax HE20	85	6375	2.0	2.0	2.0	2.0	5.0
	89	6395	2.0	2.0	2.0	2.0	5.0
	93	6415	2.0	2.0	2.0	2.0	5.0
	1	5955	2.0	2.0	2.0	2.0	5.0
	5	5975	2.0	2.0	2.0	2.0	5.0
	9	5995	2.0	2.0	2.0	2.0	5.0
	13	6015	2.0	2.0	2.0	2.0	5.0
	17	6035	2.0	2.0	2.0	2.0	5.0
	21	6055	2.0	2.0	2.0	2.0	5.0
	25	6075	2.0	2.0	2.0	2.0	5.0
	29	6095	2.0	2.0	2.0	2.0	5.0
	33	6115	2.0	2.0	2.0	2.0	5.0
	37	6135	2.0	2.0	2.0	2.0	5.0
	41	6155	2.0	2.0	2.0	2.0	5.0
	45	6175	2.0	2.0	2.0	2.0	5.0
	49	6195	2.0	2.0	2.0	2.0	5.0
	53	6215	2.0	2.0	2.0	2.0	5.0
	57	6235	2.0	2.0	2.0	2.0	5.0
	61	6255	2.0	2.0	2.0	2.0	5.0
	65	6275	2.0	2.0	2.0	2.0	5.0
	69	6295	2.0	2.0	2.0	2.0	5.0
802.11ax HE40	73	6315	2.0	2.0	2.0	2.0	5.0
	77	6335	2.0	2.0	2.0	2.0	5.0
	81	6355	2.0	2.0	2.0	2.0	5.0
	85	6375	2.0	2.0	2.0	2.0	5.0
	89	6395	2.0	2.0	2.0	2.0	5.0
	93	6415	2.0	2.0	2.0	2.0	5.0
	3	5965	5.0	5.0	5.0	5.0	8.0
	11	6005	5.0	5.0	5.0	5.0	8.0
	19	6045	5.0	5.0	5.0	5.0	8.0
	27	6085	5.0	5.0	5.0	5.0	8.0
	35	6125	5.0	5.0	5.0	5.0	8.0
	43	6165	5.0	5.0	5.0	5.0	8.0
802.11ax HE80	51	6205	5.0	5.0	5.0	5.0	8.0
	59	6245	5.0	5.0	5.0	5.0	8.0
	67	6285	5.0	5.0	5.0	5.0	8.0
	75	6325	5.0	5.0	5.0	5.0	8.0
	83	6365	5.0	5.0	5.0	5.0	8.0
	91	6405	5.0	5.0	5.0	5.0	8.0
802.11ax HE160	7	5985	8.0	8.0	8.0	8.0	11.0
	23	6065	8.0	8.0	8.0	8.0	11.0
	39	6145	8.0	8.0	8.0	8.0	11.0
	55	6225	8.0	8.0	8.0	8.0	11.0
	71	6305	8.0	8.0	8.0	8.0	11.0
	87	6385	8.0	8.0	8.0	8.0	11.0
	15	6025	10.0	10.0	10.0	10.0	13.0
	47	6185	10.0	10.0	10.0	10.0	13.0
	79	6345	10.0	10.0	10.0	10.0	13.0

WLAN Tune-up Power (Full)							
UNII-6							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	97	6435	2.0	2.0	2.0	2.0	5.0
	101	6455	2.0	2.0	2.0	2.0	5.0
	105	6475	2.0	2.0	2.0	2.0	5.0
	109	6495	2.0	2.0	2.0	2.0	5.0
	113	6515	2.0	2.0	2.0	2.0	5.0
	117	6535	2.0	2.0	2.0	2.0	5.0
802.11ax HE20	97	6435	2.0	2.0	2.0	2.0	5.0
	101	6455	2.0	2.0	2.0	2.0	5.0
	105	6475	2.0	2.0	2.0	2.0	5.0
	109	6495	2.0	2.0	2.0	2.0	5.0
	113	6515	2.0	2.0	2.0	2.0	5.0
	117	6535	2.0	2.0	2.0	2.0	5.0
802.11ax HE40	99	6445	5.0	5.0	5.0	5.0	8.0
	107	6485	5.0	5.0	5.0	5.0	8.0
	115	6525	5.0	5.0	5.0	5.0	8.0
802.11ax HE80	103	6465	8.0	8.0	8.0	8.0	11.0
	119	6545	8.0	8.0	8.0	8.0	11.0
802.11ax HE160	111	6505	10.0	10.0	10.0	10.0	13.0

WLAN Tune-up Power (Full)							
UNII-7							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	121	6555	2.0	2.0	2.0	2.0	5.0
	125	6575	2.0	2.0	2.0	2.0	5.0
	129	6595	2.0	2.0	2.0	2.0	5.0
	133	6615	2.0	2.0	2.0	2.0	5.0
	137	6635	2.0	2.0	2.0	2.0	5.0
	141	6655	2.0	2.0	2.0	2.0	5.0
	145	6675	2.0	2.0	2.0	2.0	5.0
	149	6695	2.0	2.0	2.0	2.0	5.0
	153	6715	2.0	2.0	2.0	2.0	5.0
	157	6735	2.0	2.0	2.0	2.0	5.0
	161	6755	2.0	2.0	2.0	2.0	5.0
	165	6775	2.0	2.0	2.0	2.0	5.0
	169	6795	2.0	2.0	2.0	2.0	5.0
	173	6815	2.0	2.0	2.0	2.0	5.0
	177	6835	2.0	2.0	2.0	2.0	5.0
	181	6855	2.0	2.0	2.0	2.0	5.0
	185	6875	2.0	2.0	2.0	2.0	5.0
802.11ax HE20	121	6555	2.0	2.0	2.0	2.0	5.0
	125	6575	2.0	2.0	2.0	2.0	5.0
	129	6595	2.0	2.0	2.0	2.0	5.0
	133	6615	2.0	2.0	2.0	2.0	5.0
	137	6635	2.0	2.0	2.0	2.0	5.0
	141	6655	2.0	2.0	2.0	2.0	5.0
	145	6675	2.0	2.0	2.0	2.0	5.0
	149	6695	2.0	2.0	2.0	2.0	5.0
	153	6715	2.0	2.0	2.0	2.0	5.0
	157	6735	2.0	2.0	2.0	2.0	5.0
	161	6755	2.0	2.0	2.0	2.0	5.0
	165	6775	2.0	2.0	2.0	2.0	5.0
	169	6795	2.0	2.0	2.0	2.0	5.0
	173	6815	2.0	2.0	2.0	2.0	5.0
	177	6835	2.0	2.0	2.0	2.0	5.0
	181	6855	2.0	2.0	2.0	2.0	5.0
	185	6875	2.0	2.0	2.0	2.0	5.0
802.11ax HE40	123	6565	5.0	5.0	5.0	5.0	8.0
	131	6605	5.0	5.0	5.0	5.0	8.0
	139	6645	5.0	5.0	5.0	5.0	8.0
	147	6685	5.0	5.0	5.0	5.0	8.0
	155	6725	5.0	5.0	5.0	5.0	8.0
	163	6765	5.0	5.0	5.0	5.0	8.0
	171	6805	5.0	5.0	5.0	5.0	8.0
	179	6845	5.0	5.0	5.0	5.0	8.0
802.11ax HE80	187	6885	5.0	5.0	5.0	5.0	8.0
	135	6625	8.0	8.0	8.0	8.0	11.0
	151	6705	8.0	8.0	8.0	8.0	11.0
	167	6785	8.0	8.0	8.0	8.0	11.0
802.11ax HE160	183	6865	8.0	8.0	8.0	8.0	11.0
	143	6665	10.0	10.0	10.0	10.0	13.0
	175	6825	10.0	10.0	10.0	10.0	13.0

WLAN Tune-up Power (Full)							
UNII-8							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	189	6895	2.0	2.0	2.0	2.0	5.0
	193	6915	2.0	2.0	2.0	2.0	5.0
	197	6935	2.0	2.0	2.0	2.0	5.0
	201	6955	2.0	2.0	2.0	2.0	5.0
	205	6975	2.0	2.0	2.0	2.0	5.0
	209	6995	2.0	2.0	2.0	2.0	5.0
	213	7015	2.0	2.0	2.0	2.0	5.0
	217	7035	2.0	2.0	2.0	2.0	5.0
	221	7055	2.0	2.0	2.0	2.0	5.0
	225	7075	2.0	2.0	2.0	2.0	5.0
	229	7095	2.0	2.0	2.0	2.0	5.0
	233	7115	2.0	2.0	2.0	2.0	5.0
802.11ax HE20	189	6895	2.0	2.0	2.0	2.0	5.0
	193	6915	2.0	2.0	2.0	2.0	5.0
	197	6935	2.0	2.0	2.0	2.0	5.0
	201	6955	2.0	2.0	2.0	2.0	5.0
	205	6975	2.0	2.0	2.0	2.0	5.0
	209	6995	2.0	2.0	2.0	2.0	5.0
	213	7015	2.0	2.0	2.0	2.0	5.0
	217	7035	2.0	2.0	2.0	2.0	5.0
	221	7055	2.0	2.0	2.0	2.0	5.0
	225	7075	2.0	2.0	2.0	2.0	5.0
	229	7095	2.0	2.0	2.0	2.0	5.0
	233	7115	2.0	2.0	2.0	2.0	5.0
802.11ax HE40	195	6925	5.0	5.0	5.0	5.0	8.0
	203	6965	5.0	5.0	5.0	5.0	8.0
	211	7005	5.0	5.0	5.0	5.0	8.0
	219	7045	5.0	5.0	5.0	5.0	8.0
	227	7085	5.0	5.0	5.0	5.0	8.0
802.11ax HE80	199	6945	8.0	8.0	8.0	8.0	11.0
	215	7025	8.0	8.0	8.0	8.0	11.0
802.11ax HE160	207	6985	10.0	10.0	10.0	10.0	13.0

Annex E. Measured Conducted Power Result

The measuring conducted power (Unit: dBm) are shown as below.

WLAN Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	15.43
	6	2437	15.41
	11	2462	15.4
	12	2467	15.37
	13	2472	15.39

WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT160	50	5250	15.98

WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT80	106	5530	13.87
	138	5690	13.88
802.11ac VHT160	114	5570	13.91

WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT80	155	5775	13.86

WLAN Conducted Power (Full)			
WLAN2.4GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11b	1	2412	15.48
	6	2437	15.46
	11	2462	15.44
	12	2467	15.44
	13	2472	15.43

Bluetooth Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
BR / EDR	0	2402	12.97
	39	2441	12.86
	78	2480	12.93
LE	0	2402	11.45
	19	2440	11.31
	39	2480	11.39

WLAN 5.3GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT160	50	5250	15.72

WLAN 5.6GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT80	106	5530	13.95
	138	5690	13.98
802.11ac VHT160	114	5570	13.98

WLAN 5.8GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT80	155	5775	13.97

WLAN Conducted Power (Full)					
WLAN2.4GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11b	1	2412	15.38	14.95	18.18
	6	2437	15.36	14.95	18.17
	11	2462	15.35	14.94	18.16
	12	2467	15.35	14.91	18.15
	13	2472	15.34	14.92	18.15

WLAN 5.3GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT160	50	5250	15.24	15.95	18.62

WLAN 5.6GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT80	106	5530	13.63	13.88	16.77
	138	5690	13.6	13.94	16.78
802.11ac VHT160	114	5570	13.88	13.96	16.93

WLAN 5.8GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT80	155	5775	13.78	13.99	16.9

WLAN Conducted Power (Full)			
UNII-5 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	15	6025	9.81
	47	6185	9.88
	79	6345	9.94

UNII-6 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	111	6505	9.84

UNII-7 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	143	6665	9.74
	175	6825	9.91

UNII-8 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	207	6985	9.92

WLAN Conducted Power (Full)			
UNII-5 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	15	6025	9.84
	47	6185	9.83
	79	6345	9.92

UNII-6 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	111	6505	9.85

UNII-7 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	143	6665	9.81
	175	6825	9.83

UNII-8 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	207	6985	9.85

WLAN Conducted Power (Full)					
UNII-5 Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ax HE160	15	6025	9.71	9.79	12.76
	47	6185	9.68	9.71	12.71
	79	6345	9.84	9.86	12.86

UNII-6 Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ax HE160	111	6505	9.67	9.85	12.77

UNII-7 Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ax HE160	143	6665	9.45	9.6	12.54
	175	6825	9.03	9.74	12.41

UNII-8 Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ax HE160	207	6985	9.65	9.94	12.81

Annex F. SAR and Power Density Test Result

SAR Results for Body Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.

System & Position							SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Front Face	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.09	0.204	0.21
	WLAN2.4G	802.11b	Rear Face	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	-0.08	0.173	0.18
	WLAN2.4G	802.11b	Left Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.16	0.194	0.20
	WLAN2.4G	802.11b	Right Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.03	0.359	0.37
	WLAN2.4G	802.11b	Top Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	-0.16	0.327	0.33
	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.02	0.644	0.66
	WLAN2.4G	802.11b	Front Face	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.06	0.217	0.22
	WLAN2.4G	802.11b	Rear Face	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.07	0.167	0.17
	WLAN2.4G	802.11b	Left Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	-0.16	0.175	0.18
	WLAN2.4G	802.11b	Right Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.05	0.504	0.50
	WLAN2.4G	802.11b	Top Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.01	0.437	0.44
	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.03	0.6	0.60
	WLAN2.4G	802.11b	Front Face	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	-0.05	0.273	0.29
	WLAN2.4G	802.11b	Rear Face	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	0.18	0.194	0.21
	WLAN2.4G	802.11b	Left Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	0.04	0.214	0.23
	WLAN2.4G	802.11b	Right Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	-0.17	0.445	0.48
	WLAN2.4G	802.11b	Top Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	0.11	0.405	0.44
1	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	-0.15	0.655	0.71
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	100.00	1.00	18.50	18.17	1.08	0.05	0.634	0.68
	WLAN2.4G	802.11b	Bottom Side	5	11	Ant 0+1	100.00	1.00	18.50	18.16	1.08	0.12	0.585	0.63
	WLAN2.4G	802.11b	Bottom Side	5	12	Ant 0+1	100.00	1.00	18.50	18.15	1.08	-0.19	0.597	0.64
	WLAN2.4G	802.11b	Bottom Side	5	13	Ant 0+1	100.00	1.00	18.50	18.15	1.08	0.15	0.594	0.64
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.03	0.205	0.21
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.1	0.056	0.06
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	-0.09	0.349	0.35
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.1	0.037	0.04
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.16	0.225	0.23
	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	-0.19	0.754	0.75
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	0.09	0.285	0.30
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	0.06	0.103	0.11
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	-0.07	0.34	0.36
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	0.11	0.059	0.06
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	-0.05	0.318	0.34
	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	-0.06	0.584	0.62
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	0.03	0.25	0.27
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	-0.09	0.098	0.11
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	0.07	0.459	0.50
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	0.02	0.058	0.06
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	-0.13	0.316	0.34
2	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	-0.17	0.711	0.77

System & Position							SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.08	0.265	0.27
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.05	0.072	0.07
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.02	0.451	0.46
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	-0.01	0.048	0.05
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.06	0.291	0.30
	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	-0.14	0.707	0.72
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	0.16	0.315	0.32
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.17	0.113	0.11
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.13	0.375	0.38
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.08	0.066	0.07
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.12	0.35	0.35
3	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.06	0.748	0.75
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.04	0.349	0.36
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.08	0.137	0.14
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.08	0.641	0.65
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	0.09	0.082	0.08
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	0.02	0.442	0.45
	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.04	0.726	0.74
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.19	0.235	0.24
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	-0.1	0.064	0.07
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.01	0.401	0.41
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.03	0.043	0.04
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	-0.05	0.258	0.27
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.05	0.629	0.65
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	0.04	0.339	0.34
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.1	0.122	0.12
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.06	0.405	0.41
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.14	0.071	0.07
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.16	0.378	0.38
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.08	0.649	0.66
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	-0.16	0.354	0.36
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	0.18	0.139	0.14
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	-0.17	0.65	0.66
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	0.06	0.083	0.08
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	0.03	0.448	0.46
4	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	-0.07	0.773	0.79
	BT	BR / EDR	Front Face	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.08	0.099	0.13
	BT	BR / EDR	Rear Face	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	0.11	0.076	0.10
	BT	BR / EDR	Left Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.09	0.079	0.10
	BT	BR / EDR	Right Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.12	0.229	0.30
	BT	BR / EDR	Top Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.12	0.198	0.26
	BT	BR / EDR	Bottom Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.18	0.264	0.35
	BT	BR / EDR	Bottom Side	5	39	Ant 1	76.63	1.30	13.00	12.86	1.03	0.13	0.268	0.36
5	BT	BR / EDR	Bottom Side	5	78	Ant 1	76.63	1.30	13.00	12.93	1.02	-0.18	0.275	0.36

Body SAR and Power Density Test Result (Module)

System & Position						DUT & Accessory	SAR									Power Density								
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)	Measured APD W/m ² (4cm ²)	Grid Step [λ]	iPD [W/m ²]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm ²]	Power Drift [dB]	Normal psPD [W/m ²]	Scaled Normal psPD [W/m ²]	Total psPD [W/m ²]	Scaled Total psPD [W/m ²]
	UNII-5	802.11ax HE160	Front Face	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.16	0.366	0.42	5.88	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Rear Face	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.19	0.048	0.06	0.77	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Left Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.03	0.053	0.06	0.85	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Right Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	-0.12	0.063	0.07	1.01	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Top Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.17	0.205	0.24	3.29	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.1	0.369	0.42	5.93	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Front Face	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	0.13	0.322	0.37	5.17	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Rear Face	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	-0.01	0.072	0.08	1.16	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Left Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	0.02	0.063	0.07	1.02	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Right Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	-0.16	0.214	0.25	3.44	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Top Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	0.04	0.207	0.24	3.33	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	-0.09	0.32	0.37	5.14	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Front Face	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.01	0.313	0.37	5.03	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Rear Face	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	-0.1	0.046	0.05	0.74	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Left Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.08	0.053	0.06	0.85	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Right Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.09	0.18	0.21	2.89	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Top Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	-0.04	0.19	0.22	3.05	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.09	0.381	0.45	6.11	0.25	9.50	1.545	4.00	-0.15	2.58	3.99	2.76	4.26
	UNII-5	802.11ax HE160	Bottom Side	5	15	Ant 0+1	87.89	1.14	13.00	12.76	1.06	-0.1	0.19	0.23	3.04	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	47	Ant 0+1	87.89	1.14	13.00	12.71	1.07	-0.17	0.168	0.20	2.71	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-6	802.11ax HE160	Bottom Side	5	111	Ant 0+1	87.89	1.14	13.00	12.77	1.05	-0.17	0.392	0.47	6.29	0.25	9.80	1.545	4.00	-0.15	2.58	3.99	2.79	4.31
	UNII-7	802.11ax HE160	Bottom Side	5	143	Ant 0+1	87.89	1.14	13.00	12.54	1.11	0.06	0.351	0.44	6.03	0.25	8.84	1.545	4.00	-0.16	2.44	3.77	2.62	4.05
	UNII-7	802.11ax HE160	Bottom Side	5	175	Ant 0+1	87.89	1.14	13.00	12.41	1.15	-0.07	0.28	0.37	4.48	0.25	8.01	1.545	4.00	-0.12	1.92	2.97	2.28	3.52
6	UNII-8	802.11ax HE160	Bottom Side	5	207	Ant 0+1	87.89	1.14	13.00	12.81	1.04	-0.19	0.431	0.51	6.91	0.25	10.30	1.545	4.00	-0.11	3.03	4.68	3.19	4.93

Annex G. SAR Measurement Variability

Since all the measured SAR are less than 0.8 W/kg, the repeated measurement is not required.

Annex H. Analysis of Simultaneous Transmission SAR

The analysis of simultaneous transmission SAR are shown as below.

<Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Body Exposure Condition
A	WLAN 5G + BT	Yes
B	WLAN 6G + BT	Yes
Notes	The WLAN 2.4G / 5G / 6G cannot transmit simultaneously.	

Simultaneous Transmission SAR Evaluation (Body)					
Position	1	2	3	A (1+3)	B (2+3)
	Max WLAN 5GHz	Max WLAN 6GHz	BT Ant 1	Summimg result 1g SAR W/kg	Summimg result 1g SAR W/kg
	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg		
Front Face	0.36	0.42	0.13	0.49	0.55
Rear Face	0.14	0.08	0.10	0.24	0.18
Left Side	0.66	0.07	0.10	0.76	0.17
Right Side	0.08	0.25	0.30	0.38	0.55
Top Side	0.46	0.24	0.26	0.72	0.50
Bottom Side	0.79	0.51	0.36	1.15	0.87

Annex I. SAR to Peak Location Separation Ratio Analysis.

Since sum of simultaneous transmission SAR is less than the SAR limit for Body / Head : SAR_{1g} 1.6 W/kg ;
Extremity SAR_{10g} 4.0 W/kg. There is no requirement for SAR to Peak Location Separation Ratio Analysis.

Annex J. Calibration of Test Equipment List

Calibration of Test Equipment List are shown as below.

Equipment for SAR Test

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D2450V2	737	Aug. 13, 2020	1 Year
System Validation Dipole	SPEAG	D2450V2	835	Jun. 22, 2021	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 19, 2021	1 Year
System Validation Dipole	SPEAG	D6.5GHzV2	1008	Sep. 20, 2020	1 Year
System Verification Source	SPEAG	5G Verification Source 10 GHz	1025	Jan. 19, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Jan. 27, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7537	Apr. 26, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7554	Sep. 28, 2020	1 Year
E-Field Probe	SPEAG	EUmmWV3	9361	Sep. 24, 2020	1 Year
Data Acquisition Electronics	SPEAG	DAE4	915	Jun. 22, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1585	Apr. 15, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 24, 2021	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Apr. 06, 2021	1 Year
Universal Wireless Test Set	Anritsu	MT8870A/MU887000A	6201699387	Sep. 28, 2020	1 Year
Thermometer	YFE	YF-160A	150601219	Apr. 12, 2021	1 Year
Dielectric Assessment Kit	SPEAG	DAKS-3.5	0004	Mar. 24, 2021	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	4010	Jul. 13, 2021	1 Year

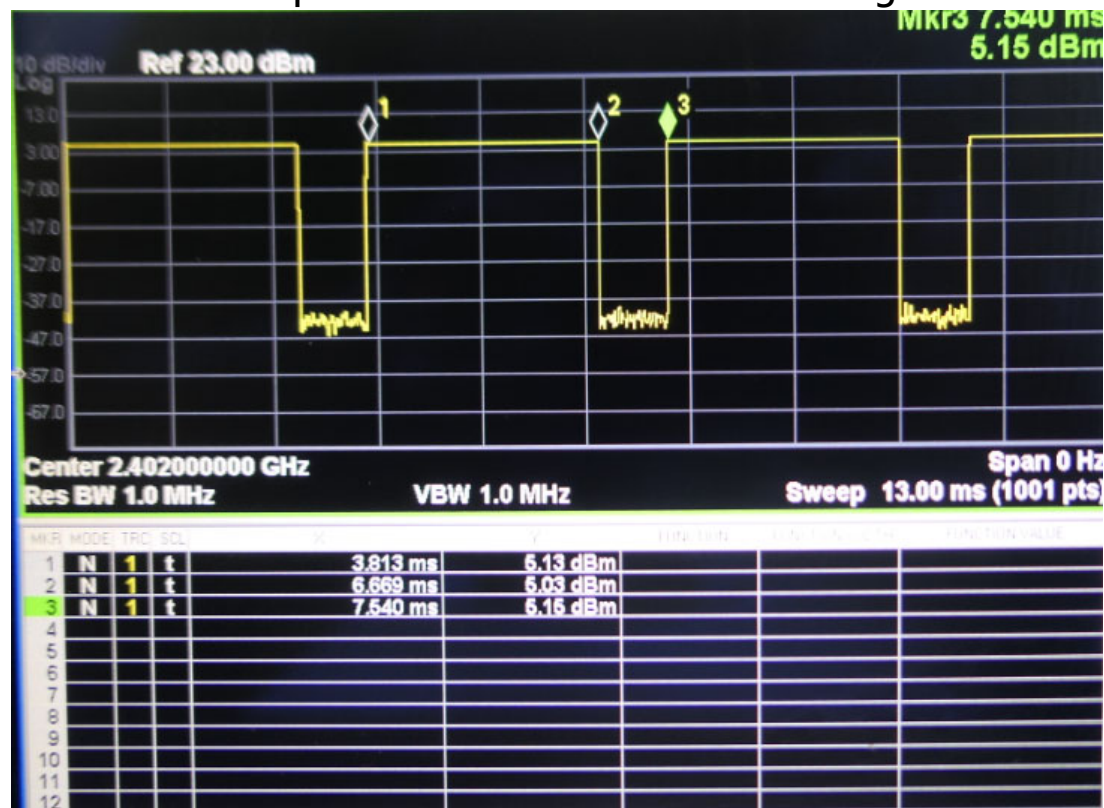
Annex K. Considerations Related to Bluetooth for Setup and Testing

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

The Bluetooth call box has been used during SAR measurement and the EUT was set to DH5 mode at the maximum output power. Its duty factor was calculated as below and the measured SAR for Bluetooth would be scaled to the 100% transmission duty factor to determine compliance.

The duty factor of Bluetooth signal are shown as below.

<Time-domain plot for Bluetooth transmission signal>



Time-domain plot for Bluetooth transmission signal

The duty factor of Bluetooth signal has been calculated as following.

$$\text{Duty Factor} = \text{Pulse Width} / \text{Total Period} = (6.669 - 3.813) / (7.54 - 3.813) = 76.63\%$$