

Annex A. Plots of System Verification

The plots for system verification are shown as follows.

Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S01 System Check_H2450_220221

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

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

Medium: H19T27N1_0221 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 37.935$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.470 W/kg

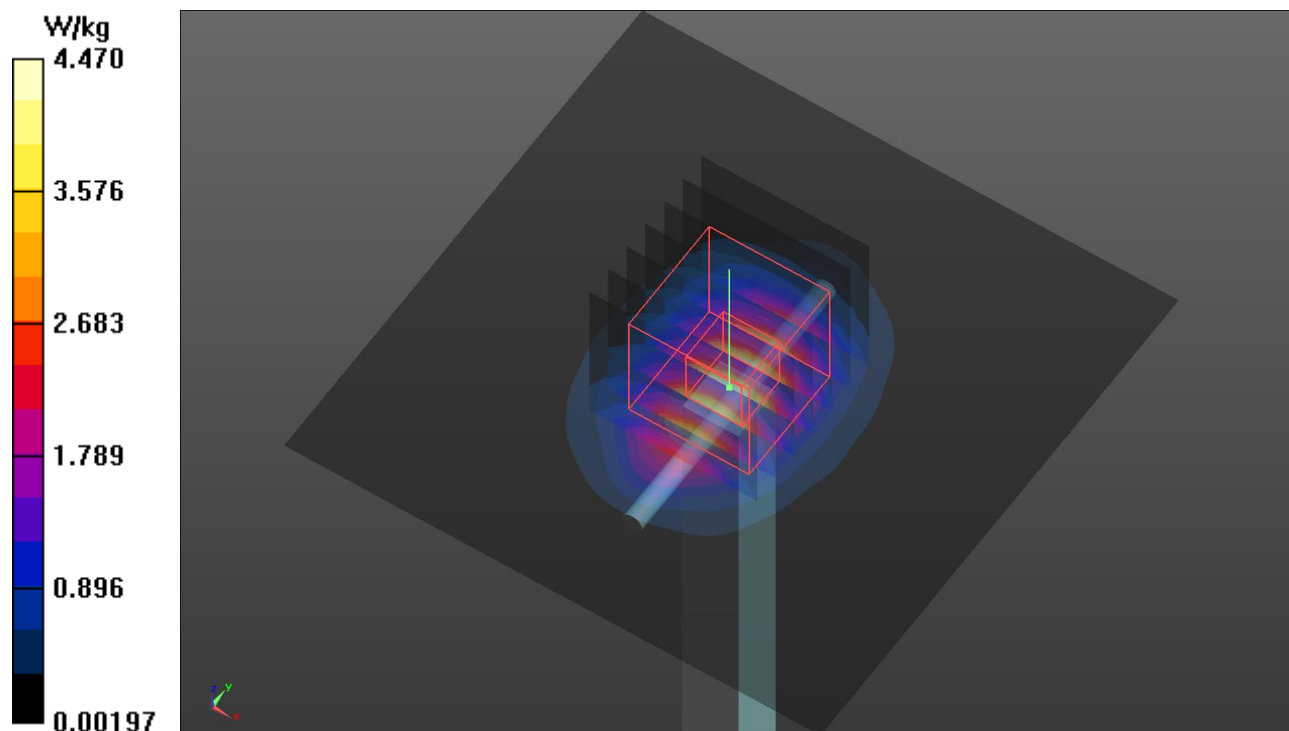
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 49.83 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.69 W/kg

SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.52 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S02 System Check_H5250_220221

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

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

Medium: H34T60N1_0221 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.704$ S/m; $\epsilon_r = 36.205$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(5.1, 5.1, 5.1) @ 5250 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 9.730 W/kg

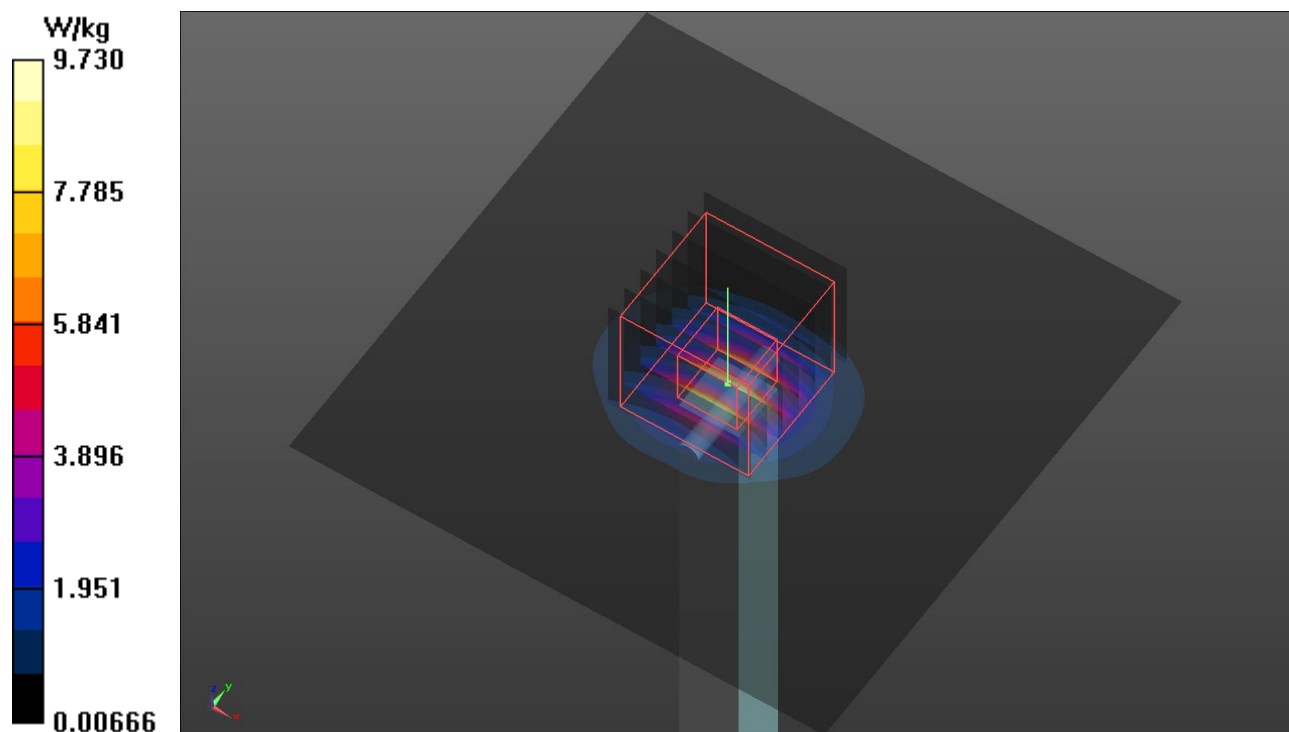
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.88 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 4.22 W/kg; SAR(10 g) = 1.22 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S03 System Check_H5600_220221

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

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

Medium: H34T60N1_0221 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.997$ S/m; $\epsilon_r = 35.803$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.6, 4.6, 4.6) @ 5600 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 10.900 W/kg

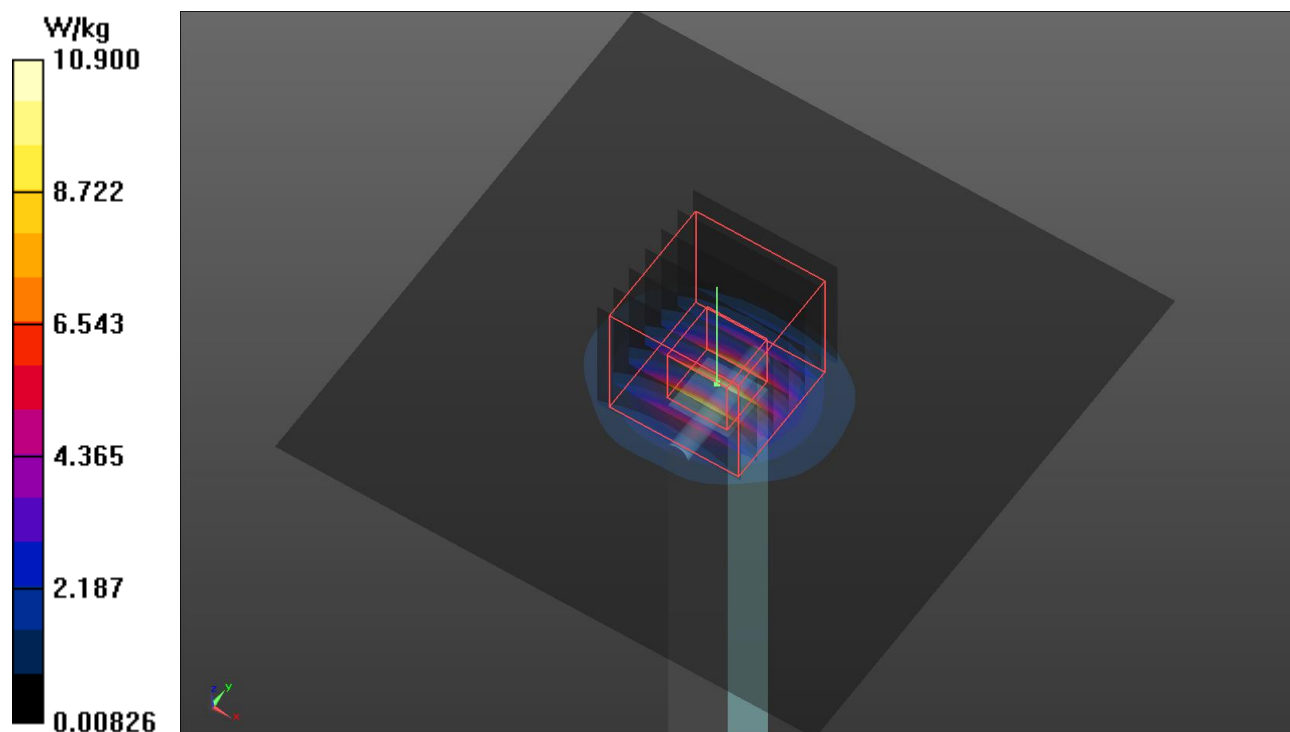
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 51.97 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 4.53 W/kg; SAR(10 g) = 1.29 W/kg (SAR corrected for target medium)

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



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S05 System Check_H5750_220221

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

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

Medium: H34T60N1_0221 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.255$ S/m; $\epsilon_r = 35.49$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.8, 4.8, 4.8) @ 5750 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 9.980 W/kg

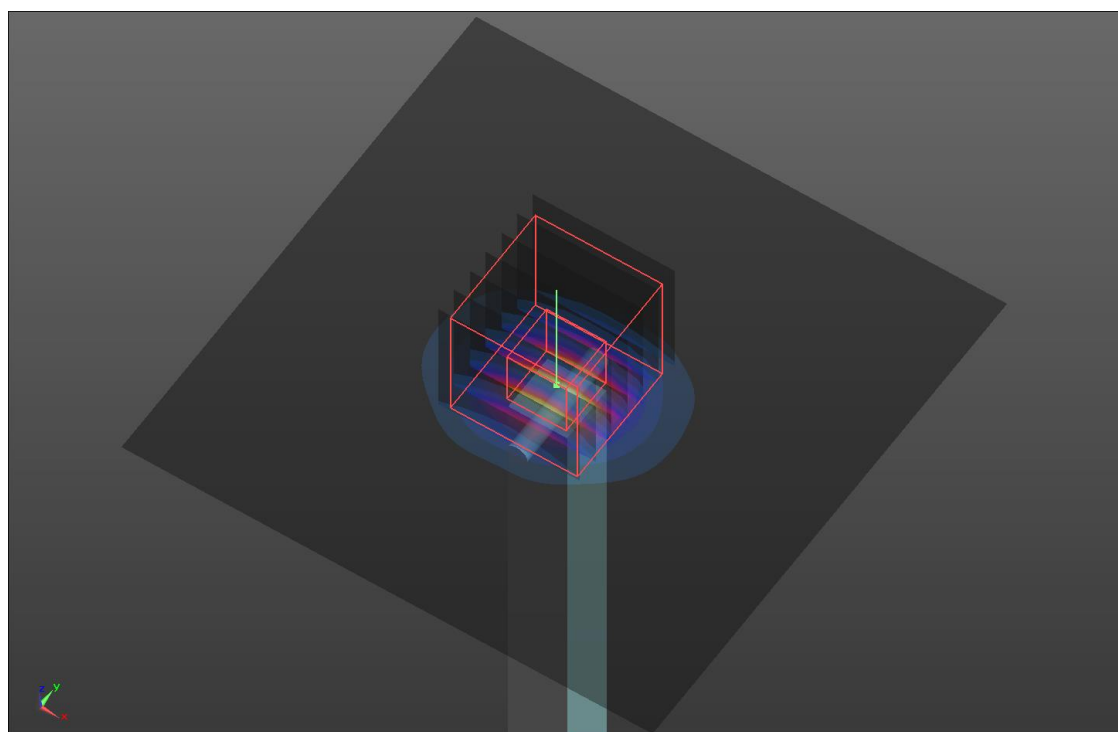
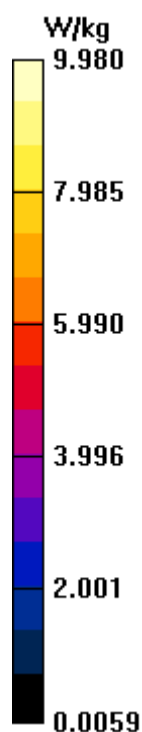
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 48.91 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 4.11 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.8 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

S06 System Check_H2450_220221

DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

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

Medium: H19T27N1_0221 Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 37.935$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2450 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

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

Maximum value of SAR (interpolated) = 4.470 W/kg

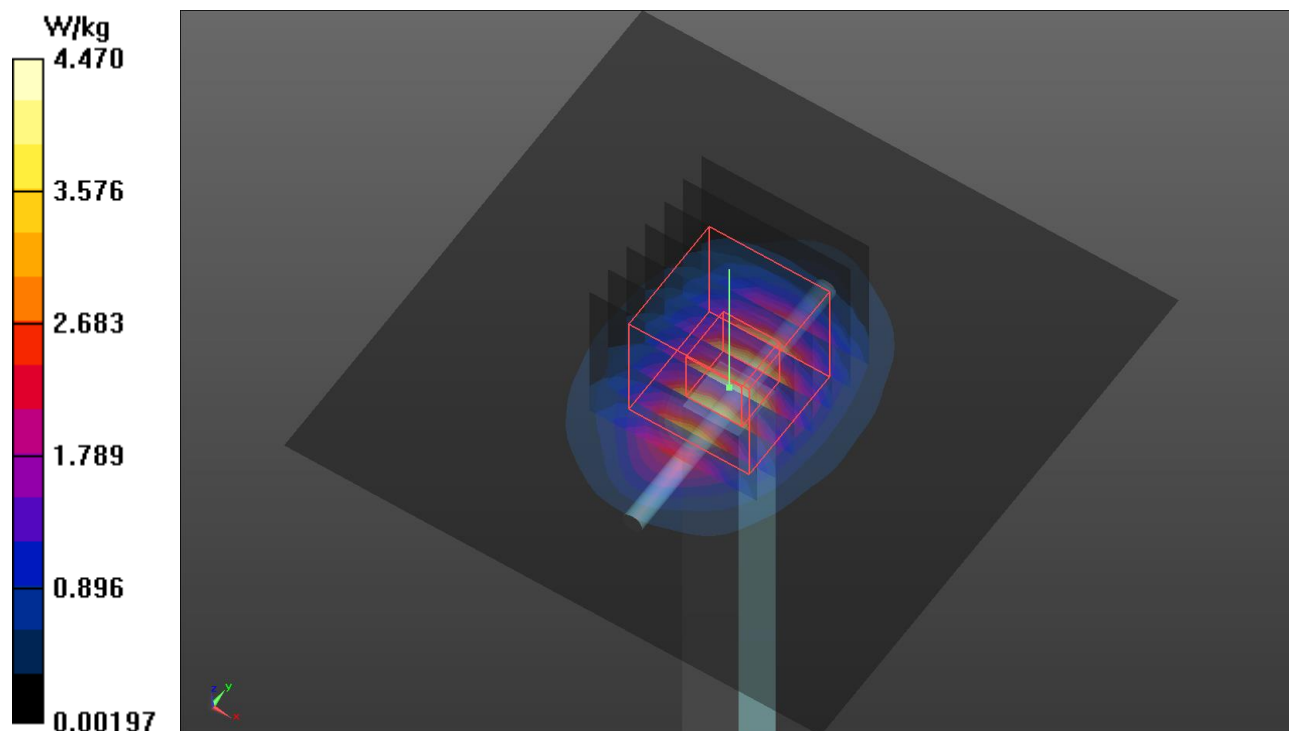
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 49.83 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.69 W/kg

SAR(1 g) = 2.58 W/kg; SAR(10 g) = 1.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.52 W/kg



Plots of System Verification

Measurement Report

S07 SAR-System Check H6.5GHz_220222

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	50.0 x 10.0 x 8.0		6500

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, HSL	,		-	6500	5.6	6.15	33.8

Hardware Setup

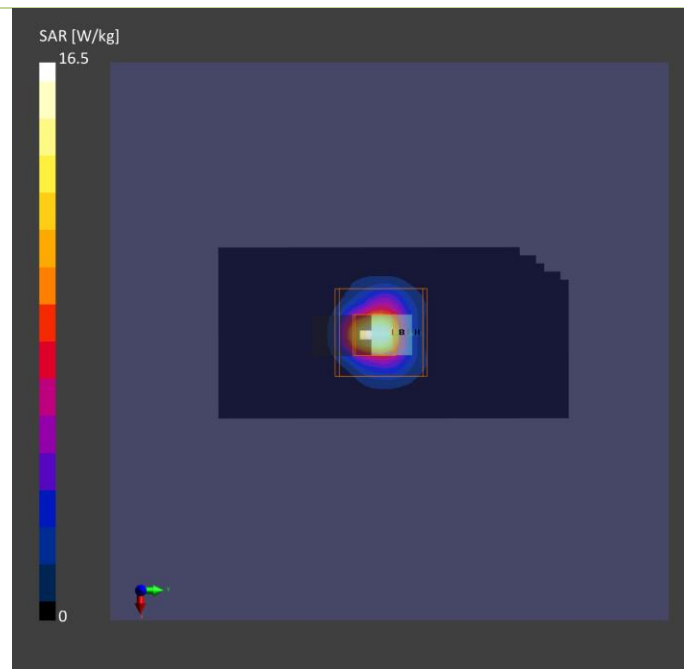
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H50T72N1, 2022-Feb-22	EX3DV4 - SN7472, 2021-06-03	DAE4 Sn1698, 2021-11-09

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-02-22	2022-02-22
psSAR1g [W/Kg]	25.0	29.1
psSAR10g [W/Kg]	5.04	5.39
Power Drift [dB]	-0.08	0.01



Plots of System Verification

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

Power Density Plot No.:

S07 Power Density-System Check_10 GHz_2022.02.24

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SPEAG, 5G Verification Source	100.0 x 100.0 x 170.0	SN: 1025	Laptop
10 GHz			

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

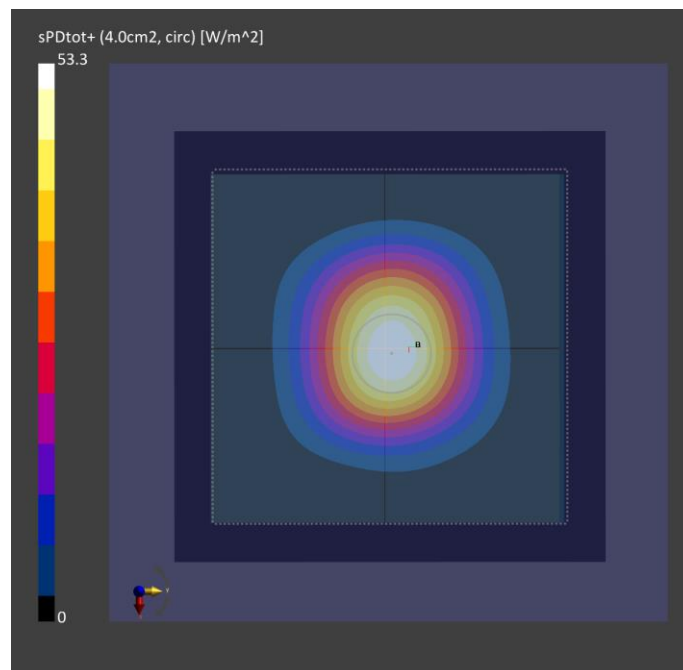
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	--Air--	EUmmWV4 - SN9438_F1-55GHz, 2021-07-26	DAE4 Sn861, 2021-04-14

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.00

Measurement Results

	5G Scan
Date	2022-02-24
Avg. Area [cm ²]	4.00
pStotavg[W/m ²]	53.3
pSnavg [W/m ²]	53.2
E _{peak} [V/m]	148
Power Drift [dB]	0.03



Annex B. Plots of Measurement

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

Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

P01 WLAN2.4G_802.11b_Bottom_0mm_Ch1_Sample 1_Ant 0+1

DUT: BFLF-WTW-P22020293

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: H19T27N1_0221 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 38.091$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2412 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.912 W/kg

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

Reference Value = 19.63 V/m; Power Drift = -0.06 dB

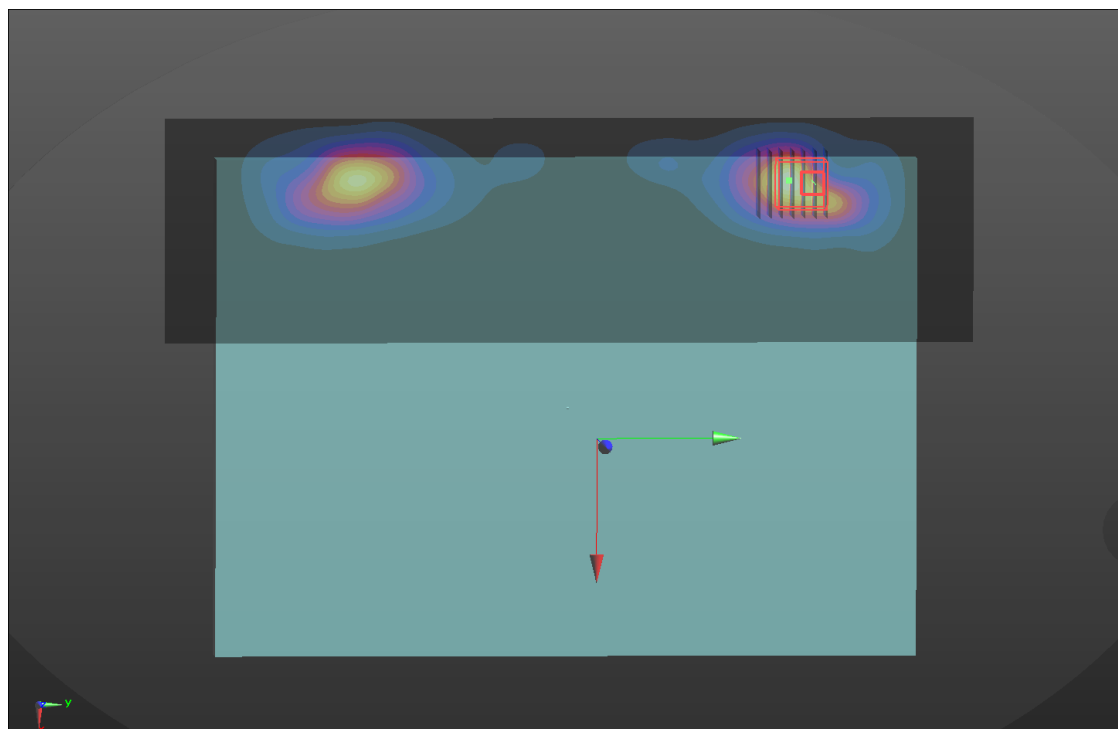
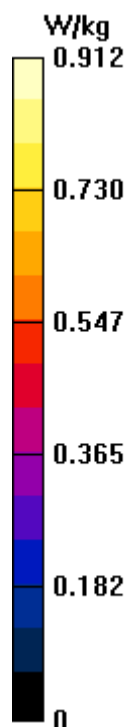
Peak SAR (extrapolated) = 2.60 W/kg

SAR(1 g) = 0.990 W/kg; SAR(10 g) = 0.398 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 43.5%

Maximum value of SAR (measured) = 1.93 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

P02 WLAN5.3G_802.11ac VHT160_Bottom_0mm_Ch50_Sample 1_Ant 0+1

DUT: BFLF-WTW-P22020293

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

Medium: H34T60N1_0221 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.704$ S/m; $\epsilon_r = 36.205$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(5.1, 5.1, 5.1) @ 5250 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x361x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.635 W/kg

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

Reference Value = 11.00 V/m; Power Drift = -0.14 dB

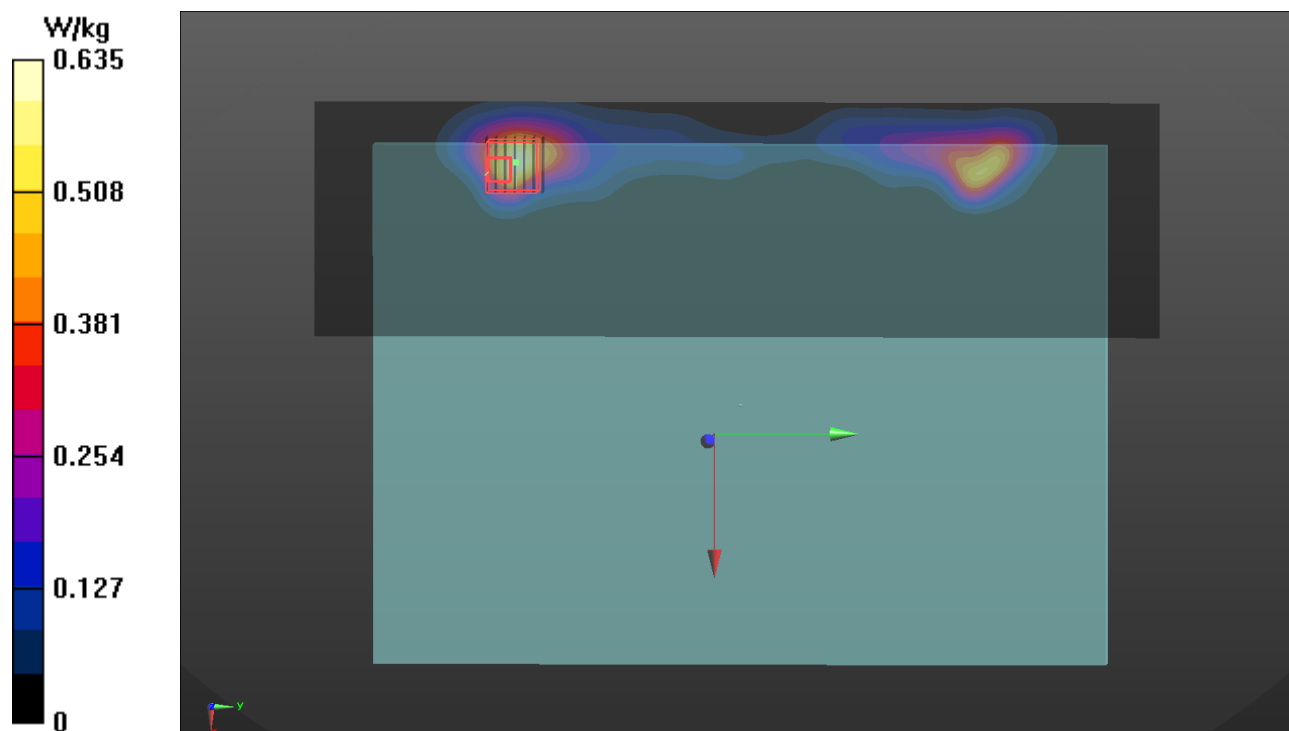
Peak SAR (extrapolated) = 3.33 W/kg

SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.168 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 64.1%

Maximum value of SAR (measured) = 1.88 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

P03 WLAN5.6G_802.11ac VHT160_Bottom_0mm_Ch114_Sample 1_Ant 1

DUT: BFLF-WTW-P22020293

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

Medium: H34T60N1_0221 Medium parameters used: $f = 5570$ MHz; $\sigma = 4.996$ S/m; $\epsilon_r = 35.946$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.6, 4.6, 4.6) @ 5570 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x361x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.884 W/kg

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

Reference Value = 11.49 V/m; Power Drift = -0.09 dB

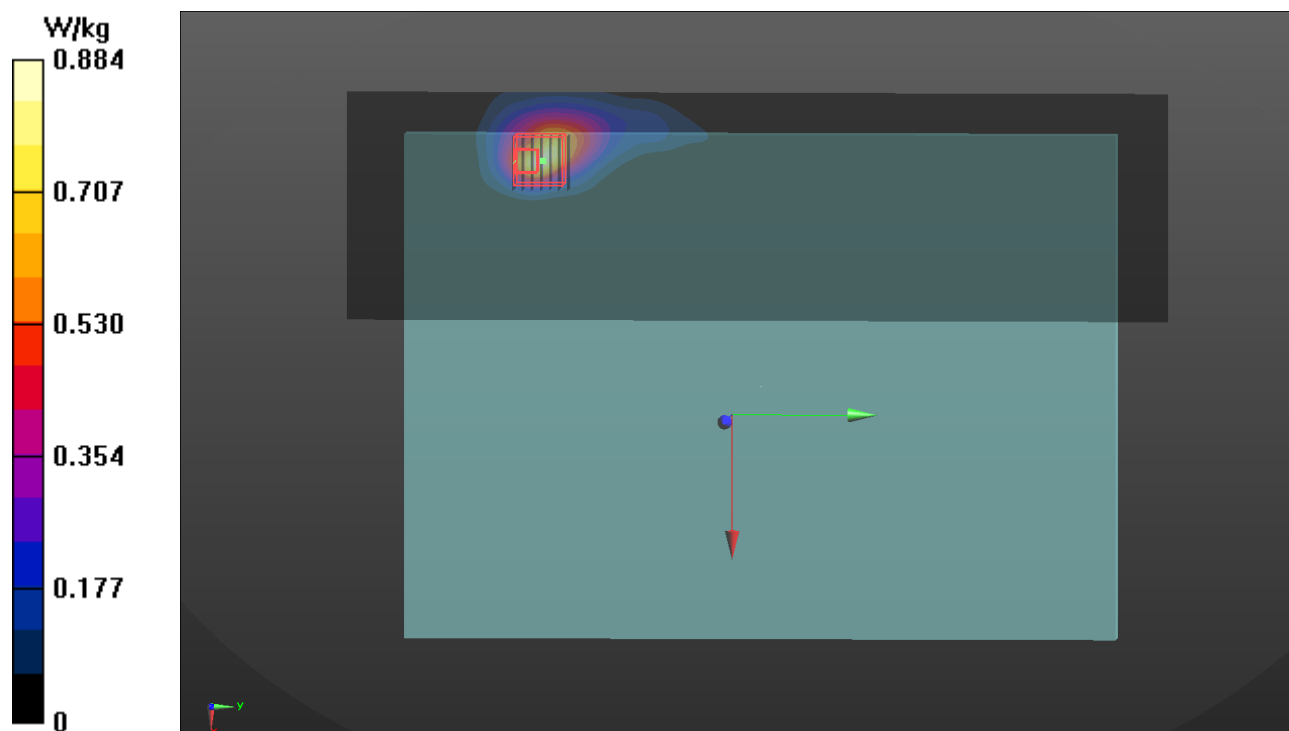
Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 0.610 W/kg; SAR(10 g) = 0.188 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 2.21 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

P05 WLAN5.8G_802.11ac VHT80_Bottom_0mm_Ch155_Sample 1_Ant 1

DUT: BFLF-WTW-P22020293

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

Medium: H34T60N1_0221 Medium parameters used: $f = 5775$ MHz; $\sigma = 5.227$ S/m; $\epsilon_r = 35.434$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(4.8, 4.8, 4.8) @ 5775 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (101x361x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.964 W/kg

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

Reference Value = 14.89 V/m; Power Drift = -0.12 dB

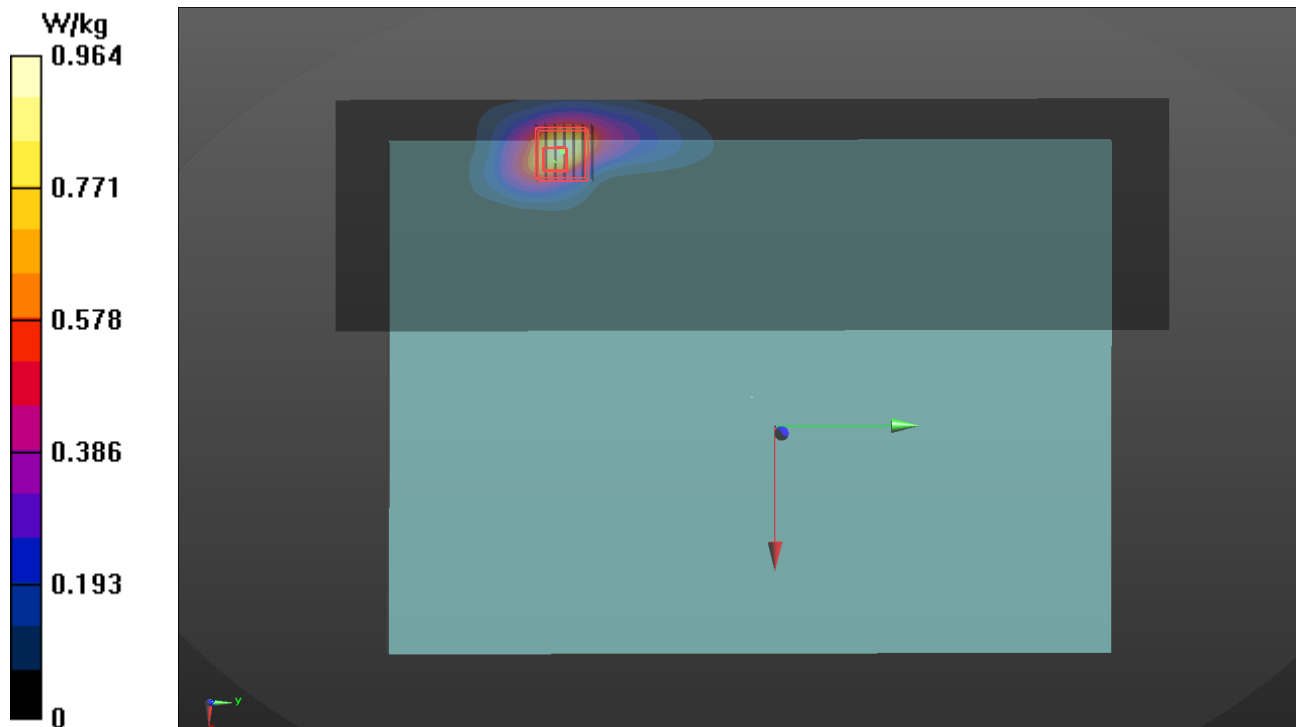
Peak SAR (extrapolated) = 2.57 W/kg

SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.207 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 = 62.5%

Maximum value of SAR (measured) = 1.52 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2022/02/21

P06 BT_BDR_Bottom_0mm_Ch78_Sample 1_Ant 1

DUT: BFLF-WTW-P22020293

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

Medium: H19T27N1_0221 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.902$ S/m; $\epsilon_r = 37.864$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 23.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7554; ConvF(7.49, 7.49, 7.49) @ 2480 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (91x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.180 W/kg

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

Reference Value = 8.551 V/m; Power Drift = -0.02 dB

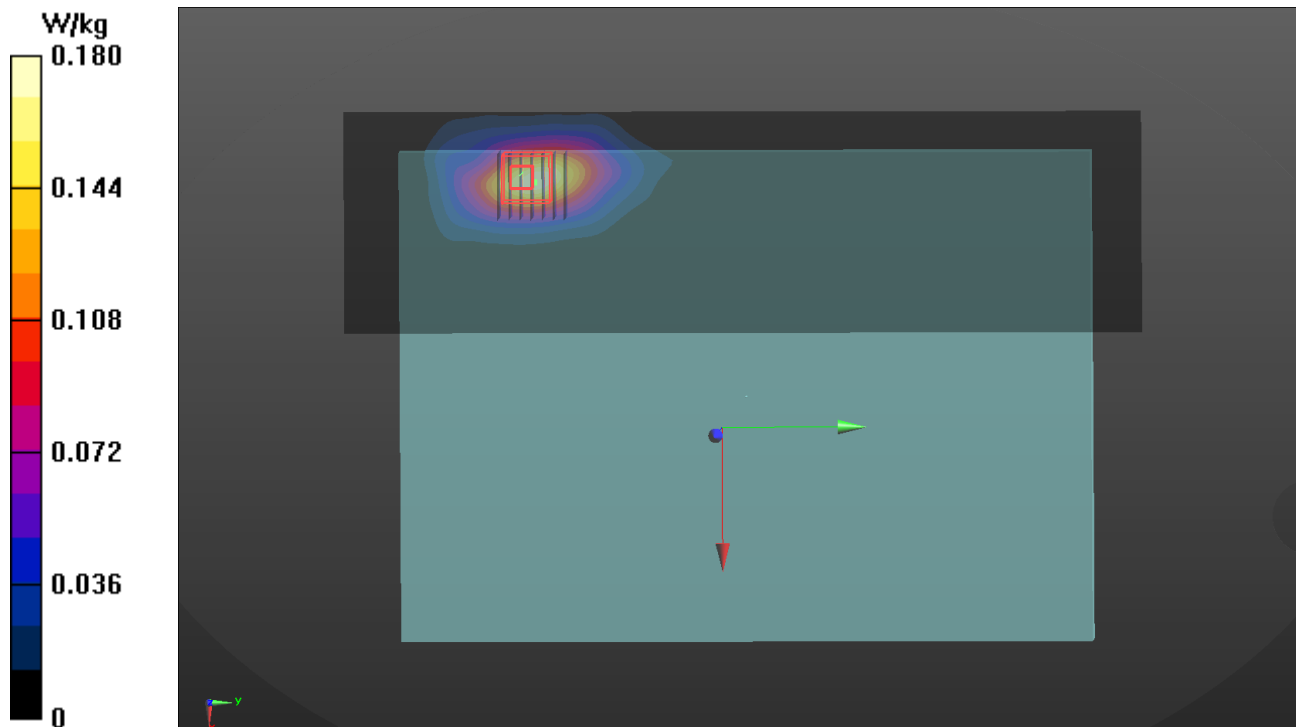
Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.077 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 44.8%

Maximum value of SAR (measured) = 0.325 W/kg



Plots of Measurement

Measurement Report

P07 SAR-UNII-8_802.11ax HE160_Bottom_0mm_Ch207_Sample 1_Ant 0

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P22020293	312.0 x 221.0 x 17.0		Laptop

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, HSL	Bottom 0.00	U-NII-8	WLAN, 10755-AAB	6985 207	5.65	6.62	32.7

Hardware Setup

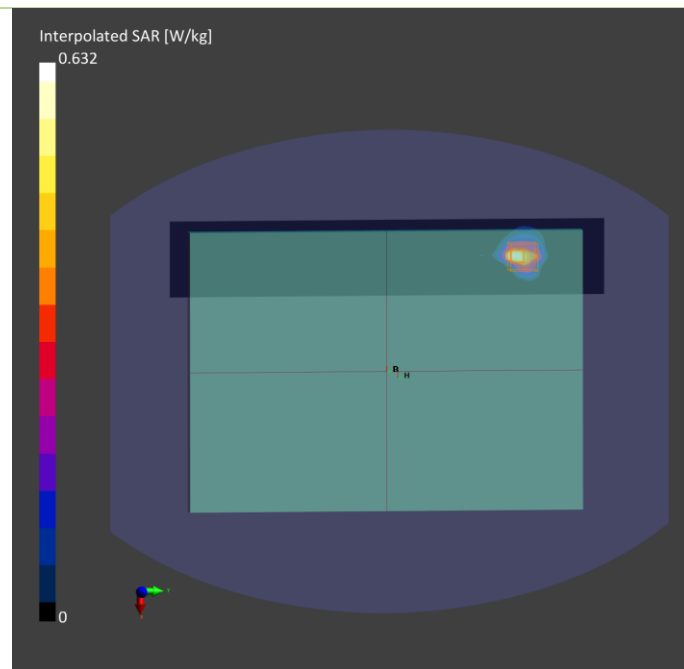
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H50T72N1, 2022-Feb-22	EX3DV4 - SN7472, 2021-06-03	DAE4 Sn1698, 2021-11-09

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 345.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-02-22	2022-02-22
psSAR1g [W/Kg]	0.465	0.507
psSAR10g [W/Kg]	0.144	0.147
Power Drift [dB]	0.00	0.01



Plots of Measurement

Measurement Report

P07 Power Density-UNII-8_802.11ax HE160_Bottom_0mm_Ch207_Sample 1_Ant 0

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P22020293	312.0 x 221.0 x 17.0		Laptop

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Bottom, 2.00	U-NII-8	WLAN, 10755-AAC	6985.0, 207	1.0

Hardware Setup

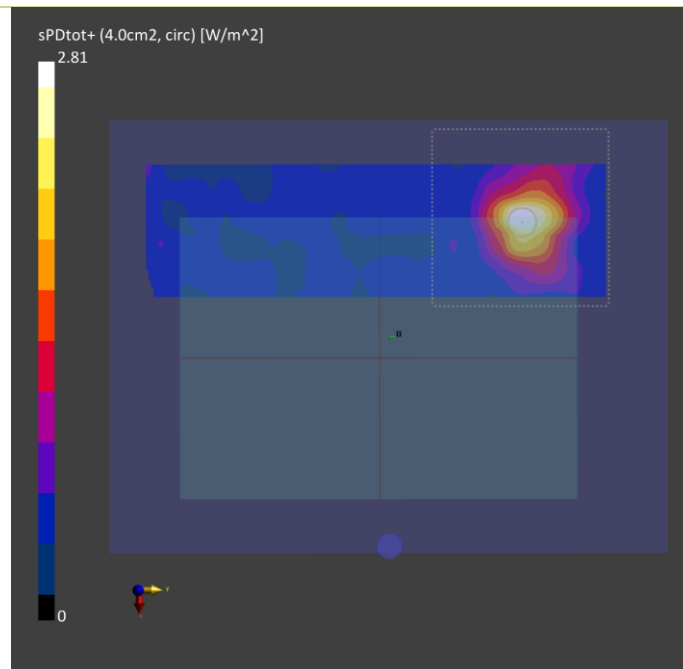
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	--Air--	EUmmWV4 - SN9438_F1-55GHz, 2021-07-26	DAE4 Sn861, 2021-04-14

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Date	2022-02-24
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.59
psPDtot+ [W/m ²]	2.81
psPDmod+ [W/m ²]	3.11
E _{max} [V/m]	51.9
Power Drift [dB]	-0.06



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 ± 10 % of the target values. Liquid temperature during the SAR testing has kept within ± 2 °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			Date	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		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	Output Power
S01	2450	23.3	1.869	37.935	1.8	39.2	3.83	-3.23	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.21,2022	2450	52.60	2.58	51.60	-1.90	737	7554	1589	17
S02	5250	23.3	4.704	36.205	4.71	35.9	-0.13	0.85	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.21,2022	5250	80.60	4.22	84.40	4.71	1019	7554	1589	17
S03	5600	23.3	4.997	35.803	5.07	35.5	-1.44	0.85	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.21,2022	5600	82.40	4.53	90.60	9.95	1019	7554	1589	17
S04	5600	23.3	4.997	35.803	5.07	35.5	-1.44	0.85	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.21,2022	5600	82.40	4.53	90.60	9.95	1019	7554	1589	17
S05	5750	23.3	5.255	35.49	5.22	35.4	0.67	0.25	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.21,2022	5750	79.40	4.11	82.20	3.53	1019	7554	1589	17
S06	2450	23.3	1.869	37.935	1.8	39.2	3.83	-3.23	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.21,2022	2450	52.60	2.58	51.60	-1.90	737	7554	1589	17
S07	6500	23.2	6.15	33.8	6.07	34.5	1.32	-2.03	Pass	Pass	Pass	OFDM	N/A	Pass	Feb.22,2022	6500	290.00	29.1	291.00	0.34	1029	7472	1698	20

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 [%]
S07	Feb. 24, 2022	10	9438	1025	4	10.0	51.3	53.3	3.90%

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)							
WLAN 2.4GHz							
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	16.0	16.0	16.0	16.0	19.0
	6	2437	16.0	16.0	16.0	16.0	19.0
	11	2462	16.0	16.0	16.0	16.0	19.0
	12	2467	16.0	16.0	16.0	16.0	19.0
	13	2472	16.0	16.0	16.0	16.0	19.0
802.11g	1	2412	16.0	16.0	16.0	16.0	19.0
	6	2437	16.0	16.0	16.0	16.0	19.0
	11	2462	16.0	16.0	16.0	16.0	19.0
	12	2467	14.5	14.5	14.5	14.5	17.5
	13	2472	11.5	11.5	11.5	11.5	14.5
802.11n HT20	1	2412	16.0	16.0	16.0	16.0	19.0
	6	2437	16.0	16.0	16.0	16.0	19.0
	11	2462	16.0	16.0	16.0	16.0	19.0
	12	2467	14.0	14.0	14.0	14.0	17.0
	13	2472	9.5	9.5	9.5	9.5	12.5
802.11n HT40	3	2422	15.0	15.0	15.0	15.0	18.0
	6	2437	16.0	16.0	16.0	16.0	19.0
	9	2452	15.0	15.0	15.0	15.0	18.0
	10	2457	12.0	12.0	12.0	12.0	15.0
	11	2462	10.0	10.0	10.0	10.0	13.0
802.11ax HE20	1	2412	16.0	16.0	16.0	16.0	19.0
	6	2437	16.0	16.0	16.0	16.0	19.0
	11	2462	16.0	16.0	16.0	16.0	19.0
	12	2467	14.0	14.0	14.0	14.0	17.0
	13	2472	10.0	10.0	10.0	10.0	13.0
802.11ax HE40	3	2422	15.0	15.0	15.0	15.0	18.0
	6	2437	16.0	16.0	16.0	16.0	19.0
	9	2452	15.0	15.0	15.0	15.0	18.0
	10	2457	12.5	12.5	12.5	12.5	15.5
	11	2462	10.0	10.0	10.0	10.0	13.0

WLAN Tune-up Power (Full)					
Bluetooth					
Mode	Channel	Frequency		Ant 1 Max Tune-up	
BR / EDR	0	2402		11.5	
	39	2441		11.5	
	78	2480		11.5	
LE	0	2402		11.5	
	19	2440		11.5	
	39	2480		11.5	

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	12.5	12.5	12.5	12.5	15.5
	40	5200	12.5	12.5	12.5	12.5	15.5
	44	5220	12.5	12.5	12.5	12.5	15.5
	48	5240	12.5	12.5	12.5	12.5	15.5
802.11n HT20	36	5180	12.5	12.5	12.5	12.5	15.5
	40	5200	12.5	12.5	12.5	12.5	15.5
	44	5220	12.5	12.5	12.5	12.5	15.5
	48	5240	12.5	12.5	12.5	12.5	15.5
802.11n HT40	38	5190	12.5	12.5	12.5	12.5	15.5
	46	5230	12.5	12.5	12.5	12.5	15.5
802.11ac VHT80	42	5210	12.5	12.5	12.5	12.5	15.5
802.11ax HE20	36	5180	12.5	12.5	12.5	12.5	15.5
	40	5200	12.5	12.5	12.5	12.5	15.5
	44	5220	12.5	12.5	12.5	12.5	15.5
	48	5240	12.5	12.5	12.5	12.5	15.5
802.11ax HE40	38	5190	12.5	12.5	12.5	12.5	15.5
	46	5230	12.5	12.5	12.5	12.5	15.5
802.11ax HE80	42	5210	12.5	12.5	12.5	12.5	15.5

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	12.5	12.5	12.5	12.5	15.5
	56	5280	12.5	12.5	12.5	12.5	15.5
	60	5300	12.5	12.5	12.5	12.5	15.5
	64	5320	12.5	12.5	12.5	12.5	15.5
802.11n HT20	52	5260	12.5	12.5	12.5	12.5	15.5
	56	5280	12.5	12.5	12.5	12.5	15.5
	60	5300	12.5	12.5	12.5	12.5	15.5
	64	5320	12.5	12.5	12.5	12.5	15.5
802.11n HT40	54	5270	12.5	12.5	12.5	12.5	15.5
	62	5310	12.5	12.5	12.5	12.5	15.5
802.11ac VHT80	58	5290	12.5	12.5	12.5	12.5	15.5
802.11ac VHT160	50	5250	12.5	12.5	12.5	12.5	15.5
802.11ax HE20	52	5260	12.5	12.5	12.5	12.5	15.5
	56	5280	12.5	12.5	12.5	12.5	15.5
	60	5300	12.5	12.5	12.5	12.5	15.5
	64	5320	12.5	12.5	12.5	12.5	15.5
802.11ax HE40	54	5270	12.5	12.5	12.5	12.5	15.5
	62	5310	12.5	12.5	12.5	12.5	15.5
802.11ax HE80	58	5290	12.5	12.5	12.5	12.5	15.5
802.11ax HE160	50	5250	12.5	12.5	12.5	12.5	15.5

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	11.0	11.0	11	11	14.0
	116	5580	11.0	11.0	11	11	14.0
	120	5600	11.0	11.0	11	11	14.0
	124	5620	11.0	11.0	11	11	14.0
	132	5660	11.0	11.0	11	11	14.0
	140	5700	11.0	11.0	11	11	14.0
	144	5720	11.0	11.0	11	11	14.0
802.11n HT20	100	5500	11.0	11.0	11	11	14.0
	116	5580	11.0	11.0	11	11	14.0
	120	5600	11.0	11.0	11	11	14.0
	124	5620	11.0	11.0	11	11	14.0
	132	5660	11.0	11.0	11	11	14.0
	140	5700	11.0	11.0	11	11	14.0
	144	5720	11.0	11.0	11	11	14.0
802.11n HT40	102	5510	11.0	11.0	11	11	14.0
	110	5550	11.0	11.0	11	11	14.0
	118	5590	11.0	11.0	11	11	14.0
	126	5630	11.0	11.0	11	11	14.0
	134	5670	11.0	11.0	11	11	14.0
	142	5710	11.0	11.0	11	11	14.0
802.11ac VHT80	106	5530	11.0	11.0	11	11	14.0
	122	5610	11.0	11.0	11	11	14.0
	138	5690	11.0	11.0	11	11	14.0
802.11ac VHT160	114	5570	11.0	11.0	11	11	14.0
802.11ax HE20	100	5500	11.0	11.0	11	11	14.0
	116	5580	11.0	11.0	11	11	14.0
	120	5600	11.0	11.0	11	11	14.0
	124	5620	11.0	11.0	11	11	14.0
	132	5660	11.0	11.0	11	11	14.0
	140	5700	11.0	11.0	11	11	14.0
	144	5720	11.0	11.0	11	11	14.0
802.11ax HE40	102	5510	11.0	11.0	11	11	14.0
	110	5550	11.0	11.0	11	11	14.0
	118	5590	11.0	11.0	11	11	14.0
	126	5630	11.0	11.0	11	11	14.0
	134	5670	11.0	11.0	11	11	14.0
	142	5710	11.0	11.0	11	11	14.0
802.11ax HE80	106	5530	11.0	11.0	11	11	14.0
	122	5610	11.0	11.0	11	11	14.0
	138	5690	11.0	11.0	11	11	14.0
802.11ax HE160	114	5570	11.0	11.0	11	11	14.0

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	11.0	11.0	11.0	11.0	14.0
	153	5765	11.0	11.0	11.0	11.0	14.0
	157	5785	11.0	11.0	11.0	11.0	14.0
	161	5805	11.0	11.0	11.0	11.0	14.0
	165	5825	11.0	11.0	11.0	11.0	14.0
802.11n HT20	149	5745	11.0	11.0	11.0	11.0	14.0
	153	5765	11.0	11.0	11.0	11.0	14.0
	157	5785	11.0	11.0	11.0	11.0	14.0
	161	5805	11.0	11.0	11.0	11.0	14.0
	165	5825	11.0	11.0	11.0	11.0	14.0
802.11n HT40	151	5755	11.0	11.0	11.0	11.0	14.0
	159	5795	11.0	11.0	11.0	11.0	14.0
802.11ac VHT80	155	5775	11.0	11.0	11.0	11.0	14.0
802.11ax HE20	149	5745	11.0	11.0	11.0	11.0	14.0
	153	5765	11.0	11.0	11.0	11.0	14.0
	157	5785	11.0	11.0	11.0	11.0	14.0
	161	5805	11.0	11.0	11.0	11.0	14.0
	165	5825	11.0	11.0	11.0	11.0	14.0
802.11ax HE40	151	5755	11.0	11.0	11.0	11.0	14.0
	159	5795	11.0	11.0	11.0	11.0	14.0
802.11ax HE80	155	5775	11.0	11.0	11.0	11.0	14.0

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
802.11ax HE20	1	5955	1.0	1.0	1.0	1.0	4.0
	5	5975	1.0	1.0	1.0	1.0	4.0
	9	5995	1.0	1.0	1.0	1.0	4.0
	13	6015	1.0	1.0	1.0	1.0	4.0
	17	6035	1.0	1.0	1.0	1.0	4.0
	21	6055	1.0	1.0	1.0	1.0	4.0
	25	6075	1.0	1.0	1.0	1.0	4.0
	29	6095	1.0	1.0	1.0	1.0	4.0
	33	6115	1.0	1.0	1.0	1.0	4.0
	37	6135	1.0	1.0	1.0	1.0	4.0
	41	6155	1.0	1.0	1.0	1.0	4.0
	45	6175	1.0	1.0	1.0	1.0	4.0
	49	6195	1.0	1.0	1.0	1.0	4.0
	53	6215	1.0	1.0	1.0	1.0	4.0
	57	6235	1.0	1.0	1.0	1.0	4.0
	61	6255	1.0	1.0	1.0	1.0	4.0
	65	6275	1.0	1.0	1.0	1.0	4.0
	69	6295	1.0	1.0	1.0	1.0	4.0
	73	6315	1.0	1.0	1.0	1.0	4.0
	77	6335	1.0	1.0	1.0	1.0	4.0
	81	6355	1.0	1.0	1.0	1.0	4.0
	85	6375	1.0	1.0	1.0	1.0	4.0
	89	6395	1.0	1.0	1.0	1.0	4.0
	93	6415	1.0	1.0	1.0	1.0	4.0
802.11ax HE40	3	5965	3.5	3.5	3.5	3.5	6.5
	11	6005	3.5	3.5	3.5	3.5	6.5
	19	6045	3.5	3.5	3.5	3.5	6.5
	27	6085	3.5	3.5	3.5	3.5	6.5
	35	6125	3.5	3.5	3.5	3.5	6.5
	43	6165	3.5	3.5	3.5	3.5	6.5
	51	6205	3.5	3.5	3.5	3.5	6.5
	59	6245	3.5	3.5	3.5	3.5	6.5
	67	6285	3.5	3.5	3.5	3.5	6.5
	75	6325	3.5	3.5	3.5	3.5	6.5
	83	6365	3.5	3.5	3.5	3.5	6.5
	91	6405	3.5	3.5	3.5	3.5	6.5
802.11ax HE80	7	5985	7.0	7.0	7.0	7.0	10.0
	23	6065	7.0	7.0	7.0	7.0	10.0
	39	6145	7.0	7.0	7.0	7.0	10.0
	55	6225	7.0	7.0	7.0	7.0	10.0
	71	6305	7.0	7.0	7.0	7.0	10.0
	87	6385	7.0	7.0	7.0	7.0	10.0
802.11ax HE160	15	6025	9.0	9.0	9.0	9.0	12.0
	47	6185	9.0	9.0	9.0	9.0	12.0
	79	6345	9.5	9.5	9.5	9.5	12.5

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
802.11ax HE20	97	6435	1.5	1.5	1.5	1.5	4.5
	101	6455	1.5	1.5	1.5	1.5	4.5
	105	6475	1.5	1.5	1.5	1.5	4.5
	109	6495	1.5	1.5	1.5	1.5	4.5
	113	6515	1.5	1.5	1.5	1.5	4.5
	117	6535	1.5	1.5	1.5	1.5	4.5
802.11ax HE40	99	6445	4.0	4.0	4.0	4.0	7.0
	107	6485	4.0	4.0	4.0	4.0	7.0
	115	6525	4.0	4.0	4.0	4.0	7.0
802.11ax HE80	103	6465	7.0	7.0	7.0	7.0	10.0
	119	6545	7.0	7.0	7.0	7.0	10.0
802.11ax HE160	111	6505	9.5	9.5	9.5	9.5	12.5

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
802.11ax HE20	121	6555	1.5	1.5	1.5	1.5	4.5
	125	6575	1.5	1.5	1.5	1.5	4.5
	129	6595	1.5	1.5	1.5	1.5	4.5
	133	6615	1.5	1.5	1.5	1.5	4.5
	137	6635	1.5	1.5	1.5	1.5	4.5
	141	6655	1.5	1.5	1.5	1.5	4.5
	145	6675	1.5	1.5	1.5	1.5	4.5
	149	6695	1.5	1.5	1.5	1.5	4.5
	153	6715	1.5	1.5	1.5	1.5	4.5
	157	6735	1.5	1.5	1.5	1.5	4.5
	161	6755	1.5	1.5	1.5	1.5	4.5
	165	6775	1.5	1.5	1.5	1.5	4.5
	169	6795	1.5	1.5	1.5	1.5	4.5
	173	6815	1.5	1.5	1.5	1.5	4.5
	177	6835	1.5	1.5	1.5	1.5	4.5
	181	6855	1.5	1.5	1.5	1.5	4.5
	185	6875	1.5	1.5	1.5	1.5	4.5
802.11ax HE40	123	6565	4.0	4.0	4.0	4.0	7.0
	131	6605	4.0	4.0	4.0	4.0	7.0
	139	6645	4.0	4.0	4.0	4.0	7.0
	147	6685	4.0	4.0	4.0	4.0	7.0
	155	6725	4.0	4.0	4.0	4.0	7.0
	163	6765	4.0	4.0	4.0	4.0	7.0
	171	6805	4.0	4.0	4.0	4.0	7.0
	179	6845	4.0	4.0	4.0	4.0	7.0
	187	6885	4.5	4.5	4.5	4.5	7.5
802.11ax HE80	135	6625	7.0	7.0	7.0	7.0	10.0
	151	6705	7.0	7.0	7.0	7.0	10.0
	167	6785	7.0	7.0	7.0	7.0	10.0
	183	6865	7.0	7.0	7.0	7.0	10.0
802.11ax HE160	143	6665	9.0	9.0	9.0	9.0	12.0
	175	6825	9.0	9.0	9.0	9.0	12.0

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
802.11ax 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	4.5	4.5	4.5	4.5	7.5
	203	6965	4.5	4.5	4.5	4.5	7.5
	211	7005	4.5	4.5	4.5	4.5	7.5
	219	7045	4.5	4.5	4.5	4.5	7.5
	227	7085	4.5	4.5	4.5	4.5	7.5
802.11ax HE80	199	6945	7.5	7.5	7.5	7.5	10.5
	215	7025	7.5	7.5	7.5	7.5	10.5
802.11ax HE160	207	6985	9.5	9.5	9.5	9.5	12.5

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	15.92
	6	2437	15.95
	11	2462	15.85
	12	2467	15.91
	13	2472	15.91
802.11g	1	2412	15.82
	6	2437	15.69
	11	2462	15.85
	12	2467	14.34
	13	2472	11.31
802.11n HT20	1	2412	15.85
	6	2437	15.72
	11	2462	15.84
	12	2467	13.78
	13	2472	9.29
802.11n HT40	3	2422	14.78
	6	2437	15.81
	9	2452	14.71
	10	2457	11.72
	11	2462	9.85
802.11ax HE20	1	2412	15.76
	6	2437	15.67
	11	2462	15.84
	12	2467	13.71
	13	2472	9.74
802.11ax HE40	3	2422	14.76
	6	2437	15.77
	9	2452	14.75
	10	2457	12.19
	11	2462	9.73

WLAN Conducted Power (Full)			
WLAN2.4GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11b	1	2412	15.91
	6	2437	15.98
	11	2462	15.88
	12	2467	15.84
	13	2472	15.97
802.11g	1	2412	15.69
	6	2437	15.68
	11	2462	15.72
	12	2467	14.26
	13	2472	11.18
802.11n HT20	1	2412	15.67
	6	2437	15.79
	11	2462	15.78
	12	2467	13.81
	13	2472	9.19
802.11n HT40	3	2422	14.73
	6	2437	15.82
	9	2452	14.72
	10	2457	11.85
	11	2462	9.73
802.11ax HE20	1	2412	15.66
	6	2437	15.79
	11	2462	15.81
	12	2467	13.73
	13	2472	9.85
802.11ax HE40	3	2422	14.84
	6	2437	15.72
	9	2452	14.76
	10	2457	12.32
	11	2462	9.65

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	15.77	15.93	18.86
	6	2437	15.75	15.99	18.88
	11	2462	15.82	15.88	18.86
	12	2467	15.82	15.9	18.87
	13	2472	15.81	15.9	18.87
802.11g	1	2412	15.81	15.67	18.75
	6	2437	15.8	15.84	18.83
	11	2462	15.66	15.75	18.72
	12	2467	14.33	14.27	17.31
	13	2472	11.25	11.34	14.31
802.11n HT20	1	2412	15.76	15.82	18.80
	6	2437	15.74	15.65	18.71
	11	2462	15.85	15.65	18.76
	12	2467	13.69	13.75	16.73
	13	2472	9.15	9.29	12.23
802.11n HT40	3	2422	14.74	14.68	17.72
	6	2437	15.75	15.73	18.75
	9	2452	14.72	14.68	17.71
	10	2457	11.85	11.85	14.86
	11	2462	9.69	9.7	12.71
802.11ax HE20	1	2412	15.81	15.73	18.78
	6	2437	15.67	15.73	18.71
	11	2462	15.71	15.67	18.70
	12	2467	13.81	13.83	16.83
	13	2472	9.82	9.83	12.84
802.11ax HE40	3	2422	14.78	14.7	17.75
	6	2437	15.81	15.79	18.81
	9	2452	14.74	14.69	17.73
	10	2457	12.22	12.31	15.28
	11	2462	9.66	9.71	12.70

WLAN Conducted Power (Full)			
Bluetooth Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
BR / EDR	0	2402	11.24
	39	2441	11.19
	78	2480	11.32
LE	0	2402	11.19
	19	2440	11.32
	39	2480	11.28

WLAN Conducted Power (Full)			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	52	5260	12.34
	56	5280	12.24
	60	5300	12.19
	64	5320	12.25
802.11n HT20	52	5260	12.25
	56	5280	12.34
	60	5300	12.18
	64	5320	12.18
802.11n HT40	54	5270	12.17
	62	5310	12.19
802.11ac VHT80	58	5290	12.25
802.11ac VHT160	50	5250	12.45
802.11ax HE20	52	5260	12.16
	56	5280	12.31
	60	5300	12.26
	64	5320	12.25
802.11ax HE40	54	5270	12.19
	62	5310	12.16
802.11ax HE80	58	5290	12.21
802.11ax HE160	50	5250	12.15

WLAN Conducted Power (Full)			
WLAN 5.3GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	52	5260	12.35
	56	5280	12.26
	60	5300	12.35
	64	5320	12.29
802.11n HT20	52	5260	12.32
	56	5280	12.34
	60	5300	12.29
	64	5320	12.27
802.11n HT40	54	5270	12.32
	62	5310	12.25
802.11ac VHT80	58	5290	12.31
802.11ac VHT160	50	5250	12.47
802.11ax HE20	52	5260	12.35
	56	5280	12.31
	60	5300	12.25
	64	5320	12.26
802.11ax HE40	54	5270	12.34
	62	5310	12.25
802.11ax HE80	58	5290	12.28
802.11ax HE160	50	5250	12.33

WLAN Conducted Power (Full)					
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
802.11a	52	5260	12.36	12.38	15.38
	56	5280	12.33	12.36	15.36
	60	5300	12.32	12.35	15.35
	64	5320	12.29	12.36	15.34
802.11n HT20	52	5260	12.32	12.39	15.37
	56	5280	12.29	12.37	15.34
	60	5300	12.32	12.38	15.36
	64	5320	12.28	12.35	15.33
802.11n HT40	54	5270	12.26	12.41	15.35
	62	5310	12.27	12.33	15.31
802.11ac VHT80	58	5290	12.35	12.31	15.34
802.11ac VHT160	50	5250	12.41	12.47	15.45
802.11ax HE20	52	5260	12.23	12.36	15.31
	56	5280	12.31	12.39	15.36
	60	5300	12.29	12.33	15.32
	64	5320	12.33	12.38	15.37
802.11ax HE40	54	5270	12.25	12.37	15.32
	62	5310	12.19	12.36	15.29
802.11ax HE80	58	5290	12.25	12.34	15.31
802.11ax HE160	50	5250	12.24	12.28	15.27

WLAN Conducted Power (Full)			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	100	5500	10.66
	116	5580	10.65
	120	5600	10.72
	124	5620	10.71
	132	5660	10.74
	140	5700	10.77
	144	5720	10.76
802.11n HT20	100	5500	10.78
	116	5580	10.72
	120	5600	10.67
	124	5620	10.74
	132	5660	10.81
	140	5700	10.74
	144	5720	10.78
802.11n HT40	102	5510	10.81
	110	5550	10.73
	118	5590	10.71
	126	5630	10.79
	134	5670	10.65
	142	5710	10.81
802.11ac VHT80	106	5530	10.83
	122	5610	10.71
	138	5690	10.75
802.11ac VHT160	114	5570	10.85
802.11ax HE20	100	5500	10.81
	116	5580	10.72
	120	5600	10.67
	124	5620	10.76
	132	5660	10.82
	140	5700	10.72
	144	5720	10.76
802.11ax HE40	102	5510	10.79
	110	5550	10.67
	118	5590	10.68
	126	5630	10.78
	134	5670	10.82
	142	5710	10.81
802.11ax HE80	106	5530	10.79
	122	5610	10.73
	138	5690	10.74
802.11ax HE160	114	5570	10.82

WLAN Conducted Power (Full)			
WLAN 5.6GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	100	5500	10.84
	116	5580	10.81
	120	5600	10.82
	124	5620	10.86
	132	5660	10.72
	140	5700	10.78
	144	5720	10.83
802.11n HT20	100	5500	10.84
	116	5580	10.77
	120	5600	10.78
	124	5620	10.76
	132	5660	10.76
	140	5700	10.83
	144	5720	10.85
802.11n HT40	102	5510	10.83
	110	5550	10.73
	118	5590	10.76
	126	5630	10.83
	134	5670	10.76
	142	5710	10.74
802.11ac VHT80	106	5530	10.87
	122	5610	10.82
	138	5690	10.85
802.11ac VHT160	114	5570	10.91
802.11ax HE20	100	5500	10.73
	116	5580	10.74
	120	5600	10.81
	124	5620	10.74
	132	5660	10.74
	140	5700	10.75
	144	5720	10.72
802.11ax HE40	102	5510	10.75
	110	5550	10.82
	118	5590	10.74
	126	5630	10.74
	134	5670	10.73
	142	5710	10.75
802.11ax HE80	106	5530	10.84
	122	5610	10.81
	138	5690	10.78
802.11ax HE160	114	5570	10.74

WLAN Conducted Power (Full)					
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
802.11a	100	5500	10.78	10.71	13.76
	116	5580	10.74	10.75	13.76
	120	5600	10.74	10.75	13.76
	124	5620	10.74	10.71	13.74
	132	5660	10.81	10.72	13.78
	140	5700	10.69	10.73	13.72
	144	5720	10.79	10.72	13.77
802.11n HT20	100	5500	10.81	10.74	13.79
	116	5580	10.69	10.78	13.75
	120	5600	10.73	10.69	13.72
	124	5620	10.75	10.69	13.73
	132	5660	10.73	10.78	13.77
	140	5700	10.76	10.72	13.75
	144	5720	10.83	10.72	13.79
802.11n HT40	102	5510	10.73	10.75	13.75
	110	5550	10.71	10.72	13.73
	118	5590	10.75	10.77	13.77
	126	5630	10.71	10.72	13.73
	134	5670	10.68	10.64	13.67
	142	5710	10.72	10.71	13.73
802.11ac VHT80	106	5530	10.88	10.79	13.85
	122	5610	10.81	10.72	13.78
	138	5690	10.84	10.75	13.81
802.11ac VHT160	114	5570	10.91	10.84	13.89
802.11ax HE20	100	5500	10.68	10.74	13.72
	116	5580	10.67	10.77	13.73
	120	5600	10.64	10.71	13.69
	124	5620	10.71	10.71	13.72
	132	5660	10.68	10.75	13.73
	140	5700	10.73	10.71	13.73
	144	5720	10.64	10.76	13.71
802.11ax HE40	102	5510	10.66	10.75	13.72
	110	5550	10.67	10.75	13.72
	118	5590	10.72	10.72	13.73
	126	5630	10.65	10.74	13.71
	134	5670	10.71	10.74	13.74
	142	5710	10.68	10.71	13.71
802.11ax HE80	106	5530	10.73	10.69	13.72
	122	5610	10.76	10.76	13.77
	138	5690	10.84	10.76	13.81
802.11ax HE160	114	5570	10.74	10.72	13.74

WLAN Conducted Power (Full)			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	149	5745	10.74
	153	5765	10.65
	157	5785	10.81
	161	5805	10.76
	165	5825	10.83
802.11n HT20	149	5745	10.84
	153	5765	10.74
	157	5785	10.71
	161	5805	10.78
	165	5825	10.83
802.11n HT40	151	5755	10.71
	159	5795	10.77
802.11ac VHT80	155	5775	10.94
802.11ax HE20	149	5745	10.83
	153	5765	10.81
	157	5785	10.73
	161	5805	10.68
	165	5825	10.85
802.11ax HE40	151	5755	10.72
	159	5795	10.76
802.11ax HE80	155	5775	10.81

WLAN Conducted Power (Full)			
WLAN 5.8GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	149	5745	10.81
	153	5765	10.79
	157	5785	10.76
	161	5805	10.76
	165	5825	10.84
802.11n HT20	149	5745	10.77
	153	5765	10.75
	157	5785	10.81
	161	5805	10.77
	165	5825	10.75
802.11n HT40	151	5755	10.84
	159	5795	10.82
802.11ac VHT80	155	5775	10.92
802.11ax HE20	149	5745	10.81
	153	5765	10.78
	157	5785	10.76
	161	5805	10.79
	165	5825	10.82
802.11ax HE40	151	5755	10.76
	159	5795	10.78
802.11ax HE80	155	5775	10.82

WLAN Conducted Power (Full)					
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
802.11a	149	5745	10.75	10.79	13.78
	153	5765	10.73	10.71	13.73
	157	5785	10.83	10.71	13.78
	161	5805	10.79	10.72	13.77
	165	5825	10.76	10.71	13.75
802.11n HT20	149	5745	10.82	10.74	13.79
	153	5765	10.74	10.78	13.77
	157	5785	10.83	10.71	13.78
	161	5805	10.74	10.71	13.74
	165	5825	10.75	10.75	13.76
802.11n HT40	151	5755	10.84	10.71	13.79
	159	5795	10.87	10.77	13.83
802.11ac VHT80	155	5775	10.92	10.87	13.91
802.11ax HE20	149	5745	10.77	10.75	13.77
	153	5765	10.81	10.75	13.79
	157	5785	10.74	10.72	13.74
	161	5805	10.76	10.75	13.77
	165	5825	10.72	10.76	13.75
802.11ax HE40	151	5755	10.75	10.72	13.75
	159	5795	10.73	10.71	13.73
802.11ax HE80	155	5775	10.75	10.74	13.76

WLAN Conducted Power (Full)			
UNII-5 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	15	6025	8.91
	47	6185	8.86
	79	6345	9.48

UNII-6 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	111	6505	9.43

UNII-7 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	143	6665	8.94
	175	6825	8.91

UNII-8 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	207	6985	9.41

WLAN Conducted Power (Full)			
UNII-5 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	15	6025	8.95
	47	6185	8.88
	79	6345	9.47

UNII-6 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	111	6505	9.39

UNII-7 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	143	6665	8.86
	175	6825	8.84

UNII-8 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	207	6985	9.42

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	8.84	8.95	11.91
	47	6185	8.81	8.84	11.84
	79	6345	9.47	9.39	12.44

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	9.41	9.32	12.38

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	8.94	8.86	11.91
	175	6825	8.91	8.84	11.89

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	9.42	9.37	12.41

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.

Body SAR Test Result

System & Position						DUT & Accessory		SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	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	Bottom	0	6	1	Ant 0	100.00	1.00	16.00	15.95	1.01	0.04	0.731	0.74
	WLAN2.4G	802.11b	Bottom	0	6	1	Ant 1	100.00	1.00	16.00	15.98	1.00	-0.1	0.602	0.60
	WLAN2.4G	802.11b	Bottom	0	6	1	Ant 0+1	100.00	1.00	19.00	18.88	1.03	-0.18	0.892	0.92
1	WLAN2.4G	802.11b	Bottom	0	1	1	Ant 0+1	100.00	1.00	19.00	18.86	1.03	-0.06	0.99	1.02
	WLAN2.4G	802.11b	Bottom	0	11	1	Ant 0+1	100.00	1.00	19.00	18.86	1.03	0.11	0.91	0.94
	WLAN2.4G	802.11b	Bottom	0	12	1	Ant 0+1	100.00	1.00	19.00	18.87	1.03	-0.18	0.919	0.95
	WLAN2.4G	802.11b	Bottom	0	13	1	Ant 0+1	100.00	1.00	19.00	18.87	1.03	-0.09	0.954	0.98
	WLAN2.4G	802.11b	Bottom	0	1	2	Ant 0+1	100.00	1.00	19.00	18.86	1.03	-0.08	0.91	0.94
	WLAN2.4G	802.11b	Bottom	0	1	1	Ant 0+1	100.00	1.00	19.00	18.86	1.03	-0.09	0.96	0.99
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	1	Ant 0	100.00	1.00	12.50	12.45	1.01	-0.18	0.335	0.34
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	1	Ant 1	100.00	1.00	12.50	12.47	1.01	-0.13	0.648	0.65
2	WLAN5.3G	802.11ac VHT160	Bottom	0	50	1	Ant 0+1	100.00	1.00	15.50	15.45	1.01	-0.14	0.655	0.66
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	2	Ant 0+1	100.00	1.00	15.50	15.45	1.01	0.02	0.613	0.62
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	1	Ant 0	100.00	1.00	11.00	10.85	1.04	-0.17	0.261	0.27
3	WLAN5.6G	802.11ac VHT160	Bottom	0	114	1	Ant 1	100.00	1.00	11.00	10.91	1.02	-0.09	0.61	0.62
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	1	Ant 0+1	100.00	1.00	14.00	13.89	1.03	0.06	0.594	0.61
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	2	Ant 1	100.00	1.00	11.00	10.91	1.02	-0.04	0.601	0.61
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	1	Ant 0	100.00	1.00	11.00	10.94	1.01	0.08	0.19	0.19
5	WLAN5.8G	802.11ac VHT80	Bottom	0	155	1	Ant 1	100.00	1.00	11.00	10.92	1.02	-0.12	0.63	0.64
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	1	Ant 0+1	100.00	1.00	14.00	13.91	1.02	0.04	0.549	0.56
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	2	Ant 1	100.00	1.00	11.00	10.92	1.02	0.04	0.465	0.47
6	BT	BDR	Bottom	0	78	1	Ant 1	76.83	1.30	11.50	11.32	1.04	-0.02	0.182	0.25
	BT	BDR	Bottom	0	0	1	Ant 1	76.83	1.30	11.50	11.24	1.06	0.06	0.171	0.24
	BT	BDR	Bottom	0	39	1	Ant 1	76.83	1.30	11.50	11.19	1.07	-0.14	0.166	0.23
	BT	BDR	Bottom	0	78	2	Ant 1	76.83	1.30	11.50	11.32	1.04	-0.15	0.173	0.23

SAR and Power Density Test Result																										
System & Position						DUT & Accessory		SAR								Power Density										
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	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/m2]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm2]	Power Drift [dB]	Normal psPD [W/m2]	Scaled Normal psPD [W/m2]	Total psPD [W/m2]	Scaled Total psPD [W/m2]	
		UNII-5	802.11ax HE160	Bottom	0	79	1	Ant 0	94.30	1.06	9.50	9.48	1.00	0.04	0.411	0.44	3.35			-			-		-	
		UNII-5	802.11ax HE160	Bottom	0	79	1	Ant 1	94.80	1.05	9.50	9.47	1.01	-0.04	0.22	0.23	1.2			-			-		-	
		UNII-5	802.11ax HE160	Bottom	0	79	1	Ant 0+1	94.80	1.05	12.50	12.44	1.01	-0.07	0.391	0.41	3.08			-			-		-	
		UNII-5	802.11ax HE160	Bottom	0	15	1	Ant 0	94.30	1.06	9.00	8.91	1.02	-0.13	0.125	0.14	1.01			-			-		-	
		UNII-5	802.11ax HE160	Bottom	0	47	1	Ant 0	94.30	1.06	9.00	8.86	1.03	0.08	0.267	0.29	2.24			-			-		-	
		UNII-6	802.11ax HE160	Bottom	0	111	1	Ant 0	94.30	1.06	9.50	9.43	1.02	0.07	0.321	0.35	2.57			-			-		-	
		UNII-7	802.11ax HE160	Bottom	0	143	1	Ant 0	94.30	1.06	9.00	8.94	1.01	-0.14	0.206	0.22	1.65			-			-		-	
		UNII-7	802.11ax HE160	Bottom	0	175	1	Ant 0	94.30	1.06	9.00	8.91	1.02	0.19	0.395	0.43	3.11			-			-		-	
7		UNII-8	802.11ax HE160	Bottom	0	207	1	Ant 0	94.30	1.06	9.50	9.41	1.02	0.01	0.507	0.55	3.68	0.25	2.31	1.545	4.00	-0.06	2.59	4.24	2.81	4.6
		UNII-8	802.11ax HE160	Bottom	0	207	2	Ant 0	94.30	1.06	9.50	9.41	1.02	0.14	0.432	0.47	3.32			-			-		-	

Annex G. SAR Measurement Variability

SAR repeated measurement are shown as below.

Repeat SAR							
Plot	Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio
R01	WLAN2.4G	802.11b	Bottom	1	0.99	0.96	1.03

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 2.4G_Ant 0 + BT_Ant 1	Yes
B	WLAN 5G_Ant 0 + BT_Ant 1	Yes
C	WLAN 5G_Ant 0+1 + BT_Ant 1	Yes
D	WLAN 6G_Ant 0 + BT_Ant 1	Yes
E	WLAN 6G_Ant 0+1 + BT_Ant 1	Yes

Notes

- 1. The WLAN 2.4G and WLAN 5G and WLAN 6G cannot transmit simultaneously.

Simultaneous Transmission SAR Evaluation (Body)											
Position	1	2	3	4	5	6	A(1+6)	B(2+6)	C(3+6)	D(4+6)	E(5+6)
	WLAN 2.4GHz Ant 0	WLAN 5GHz Ant 0	WLAN 5GHz Ant 0+1	WLAN 6GHz Ant 0	WLAN 6GHz 0+1	BT Ant 1	Summimg result	Summimg result	Summimg result	Summimg result	Summimg result
	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg
Bottom	0.74	0.34	0.66	0.55	0.41	0.25	0.99	0.59	0.91	0.80	0.66

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. 26, 2021	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 19, 2021	1 Year
System Verification Source	SPEAG	5G Verification Source 10 GHz	1025	Jan. 17, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7472	Jun. 03, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7554	Aug. 26, 2021	1 Year
E-Field Probe	SPEAG	EUmmWV4	9438	Jul. 26, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	Apr. 14, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1589	Aug. 20, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1698	Nov. 09, 2021	1 Year
Spectrum Analyzer	R&S	FSL6	102006	Apr. 06, 2021	1 Year
Analong Signal Generator	R&S	SMA100B	104417	Oct. 22, 2021	1 Year
Mini-Circuits Wideband Amplifier	Mini-Circuits	ZVA-183-S+	434502031A	Aug. 20, 2021	1 Year
Universal Wireless Test Set	Anritsu	MT8870A/MU887000A	6201699387	Sep. 22, 2021	1 Year
Thermometer	YFE	YF-160A	191100743	Apr. 12, 2021	1 Year
Dielectric Assessment Kit	SPEAG	DAKS-3.5	1151	Jul. 14, 2021	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	4010	Jul. 13, 2021	1 Year

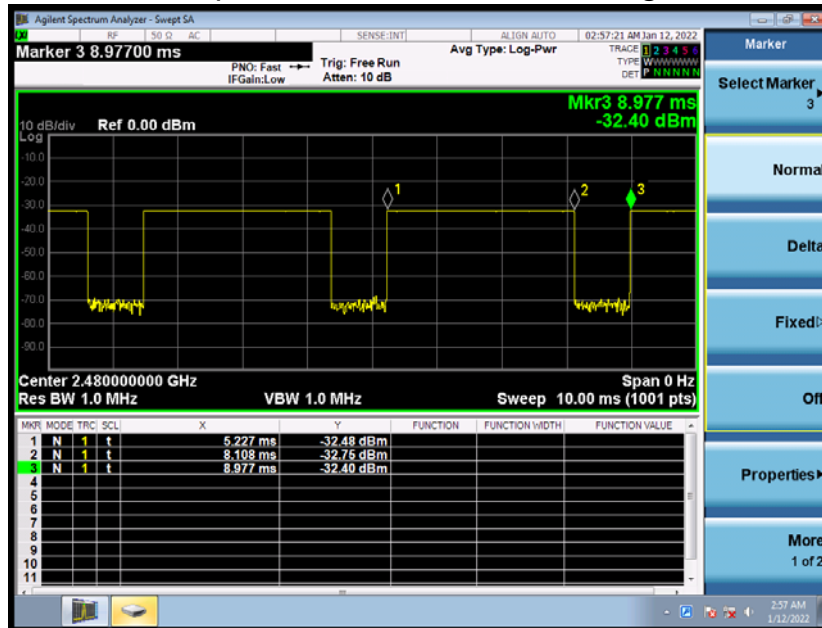
Annex K. Considerations Related to Bluetooth for Setup and Testing

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.

$$\text{Duty Factor} = \text{Pulse Width} / \text{Total Period} = (8.108 - 5.227) / (8.977 - 5.227) = 76.83\%$$