Appendix A. Plots of System Verification

The plots for system verification are shown as follows.

Plots of System Verification

Measurement Report
S01 System Check_H2450_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	2450.0, 0	7.26	1.81	39.4

Hardware Setup

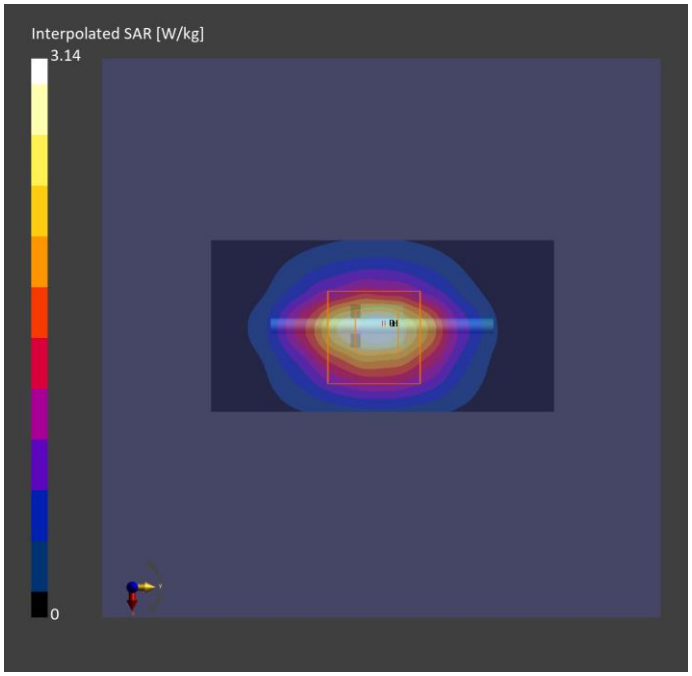
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H19T27N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 96.0	35.0 x 35.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	2.48	2.46
psSAR10g [W/kg]	1.14	1.13
Power Drift [dB]	0.00	0.00



Plots of System Verification

Measurement Report
S02 System Check_H5250_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	5250.000, 0	4.9	4.50	34.8

Hardware Setup

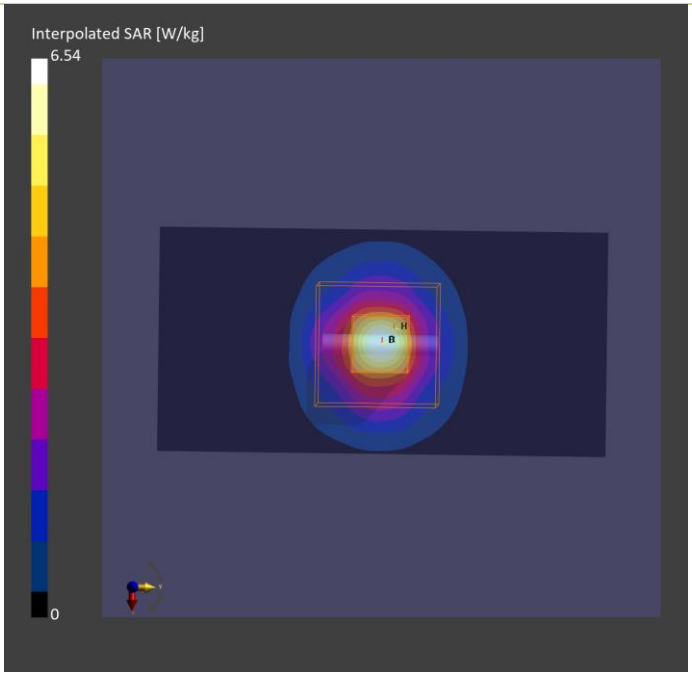
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	4.11	4.20
psSAR10g [W/kg]	1.19	1.23
Power Drift [dB]	-0.00	0.03



Plots of System Verification

Measurement Report
S03 System Check H5600_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	5600.000, 0	4.3	4.87	34.2

Hardware Setup

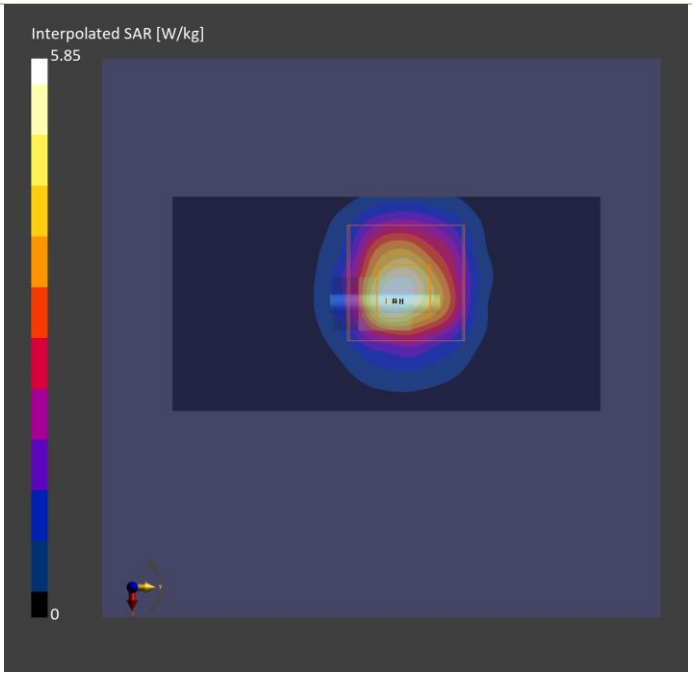
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	4.31	4.49
psSAR10g [W/kg]	1.19	1.28
Power Drift [dB]	-0.01	0.06



Plots of System Verification

Measurement Report
S04 System Check_H5750_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	5750.000, 0	4.43	5.04	33.9

Hardware Setup

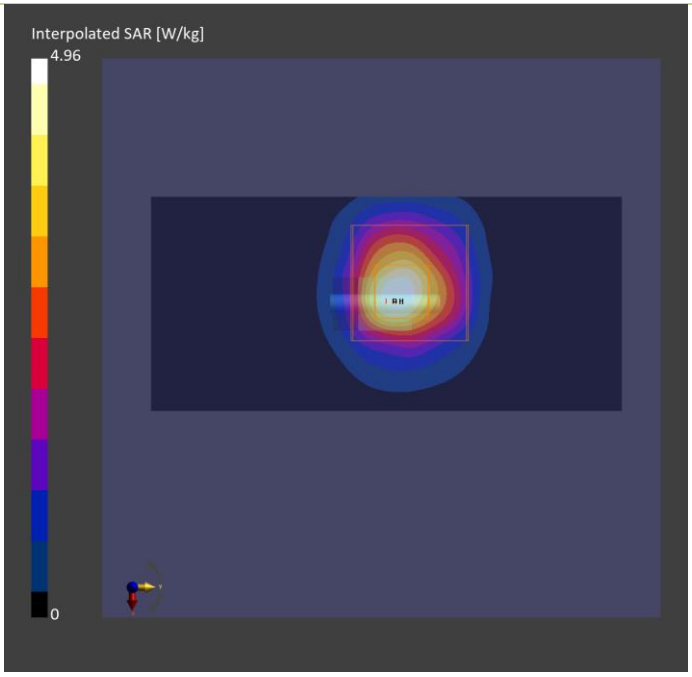
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	3.65	3.86
psSAR10g [W/kg]	1.02	1.10
Power Drift [dB]	-0.04	0.08



Plots of System Verification

Measurement Report
S05 System Check_H2450_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	2450.0, 0	7.26	1.81	39.4

Hardware Setup

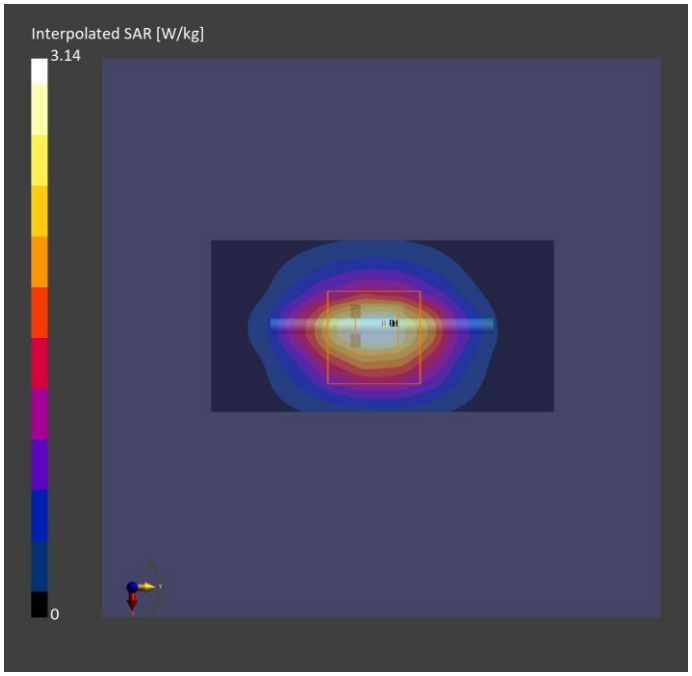
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H19T27N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 96.0	35.0 x 35.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	2.48	2.46
psSAR10g [W/kg]	1.14	1.13
Power Drift [dB]	0.00	0.00



Plots of System Verification

Measurement Report
S06 System Check_H2450_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	2450.0, 0	7.26	1.81	39.4

Hardware Setup

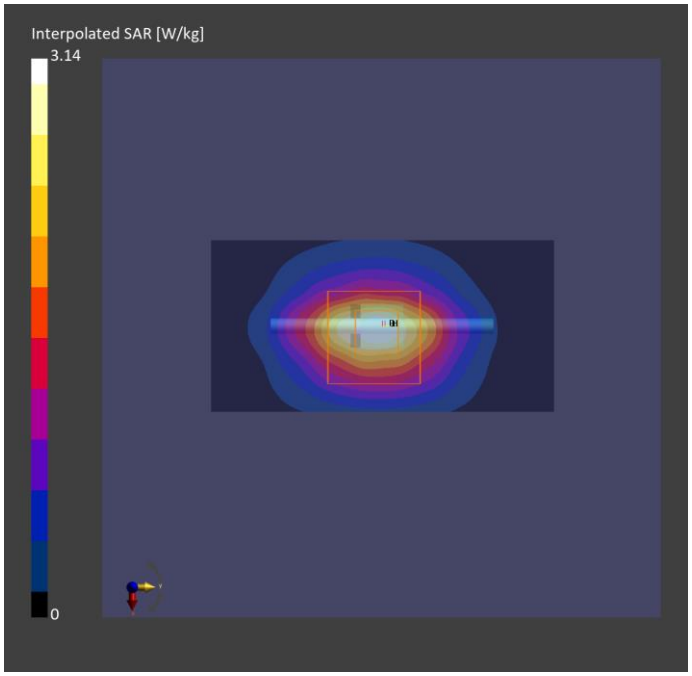
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H19T27N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 96.0	35.0 x 35.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	2.48	2.46
psSAR10g [W/kg]	1.14	1.13
Power Drift [dB]	0.00	0.00



Plots of System Verification

Measurement Report
S07 System Check_H5250_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	5250.000, 0	4.9	4.50	34.8

Hardware Setup

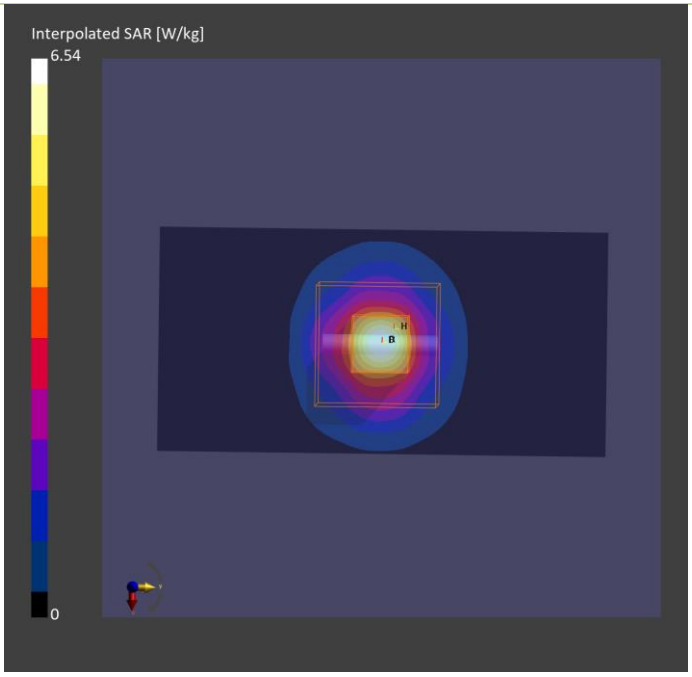
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	4.11	4.20
psSAR10g [W/kg]	1.19	1.23
Power Drift [dB]	-0.00	0.03



Plots of System Verification

Measurement Report
S08 System Check H5600_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	5600.000, 0	4.3	4.87	34.2

Hardware Setup

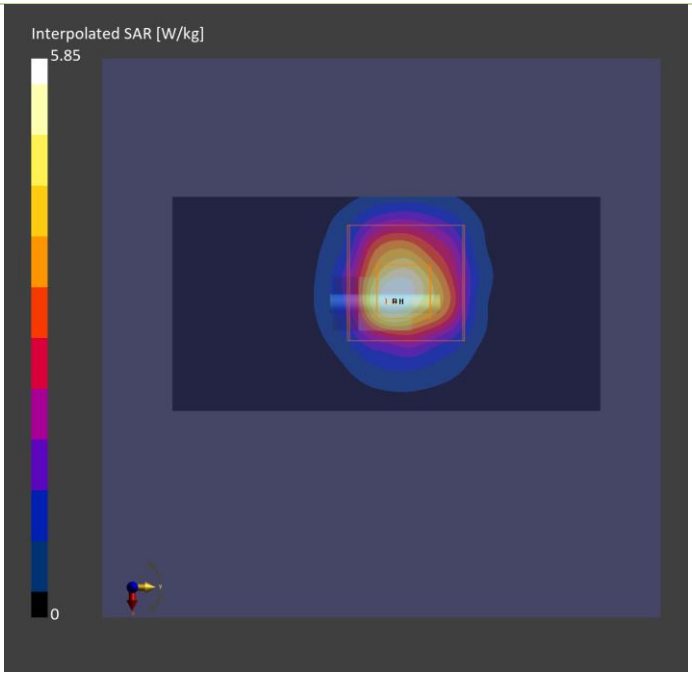
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	4.31	4.49
psSAR10g [W/kg]	1.19	1.28
Power Drift [dB]	-0.01	0.06



Plots of System Verification

Measurement Report
S09 System Check_H5750_240812
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

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,	,		CW, 0--	5750.000, 0	4.43	5.04	33.9

Hardware Setup

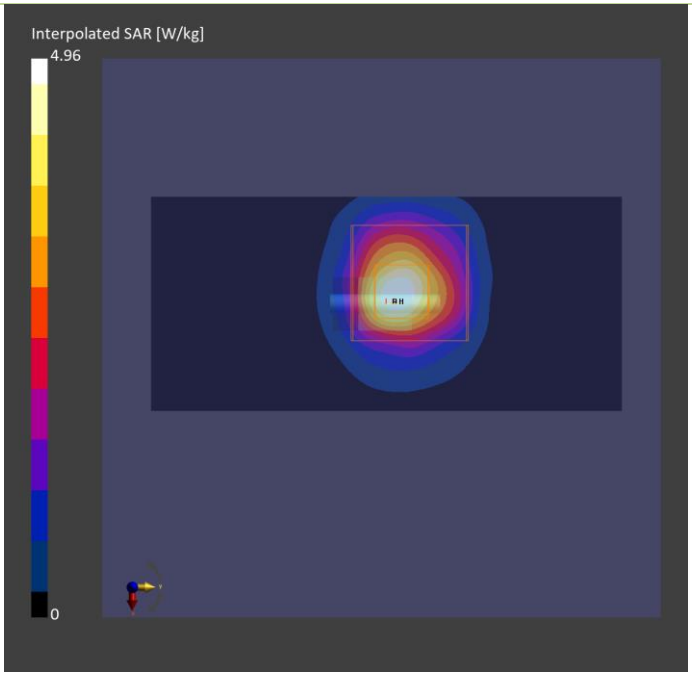
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N09 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	3.65	3.86
psSAR10g [W/kg]	1.02	1.10
Power Drift [dB]	-0.04	0.08



Appendix 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

Measurement Report
P01 WLAN2.4G_802.11b_Bottom of Laptop_0mm_Ch1_Antenna Vender_Luxchare_Ant 0_Fan_w
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Bottom of Laptop, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2412.000, 1	7.26	1.79	39.5

Hardware Setup

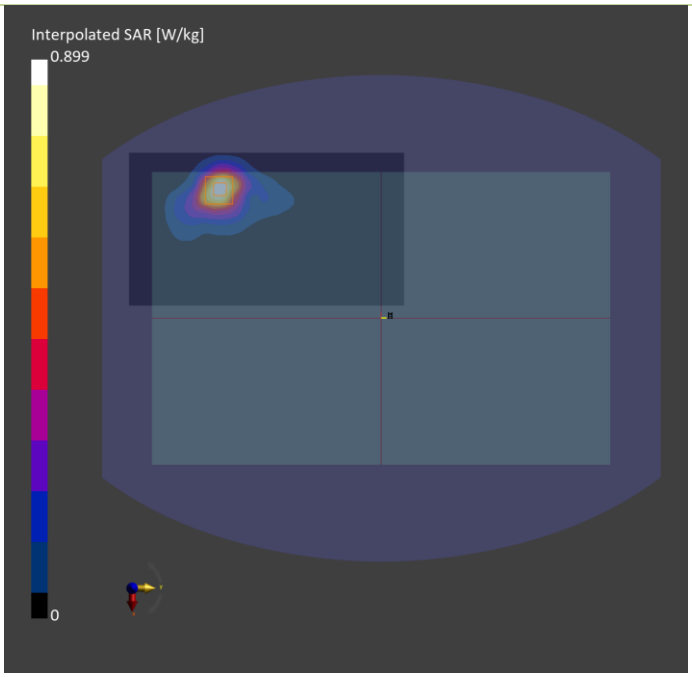
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H19T27N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	0.719	0.750
psSAR10g [W/kg]	0.370	0.383
Power Drift [dB]	0.04	-0.02
M2/M1 [%]		51.0
Dist 3dB Peak [mm]		11.5



Plots of Measurement

Measurement Report
P02 WLAN5.3G_802.11ac VHT80_Front Edge of Laptop_0mm_Ch58_Antenna Vender_Luxchare_Ant 0_Fan_w_o

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Front Edge of Laptop, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5290.000, 58	4.9	4.54	34.7

Hardware Setup

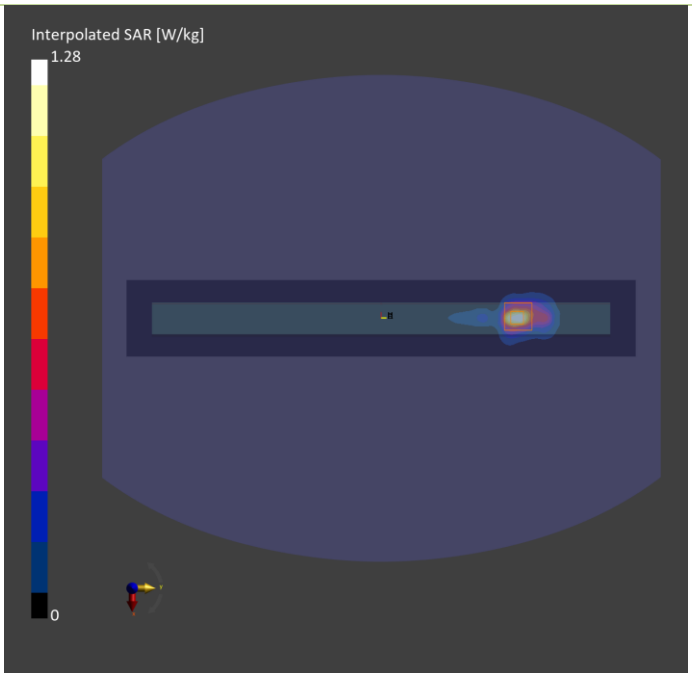
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 400.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	0.899	1.02
psSAR10g [W/kg]	0.293	0.303
Power Drift [dB]	-0.03	0.07
M2/M1 [%]		65.4
Dist 3dB Peak [mm]		7.2



Plots of Measurement

Measurement Report
P03 WLAN5.6G_802.11ac VHT80_Front Edge of Laptop_0mm_Ch106_Antenna Vender_Luxchare_Ant 0_Fan_w_o

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Front Edge of Laptop, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5530.000, 106	4.3	4.80	34.3

Hardware Setup

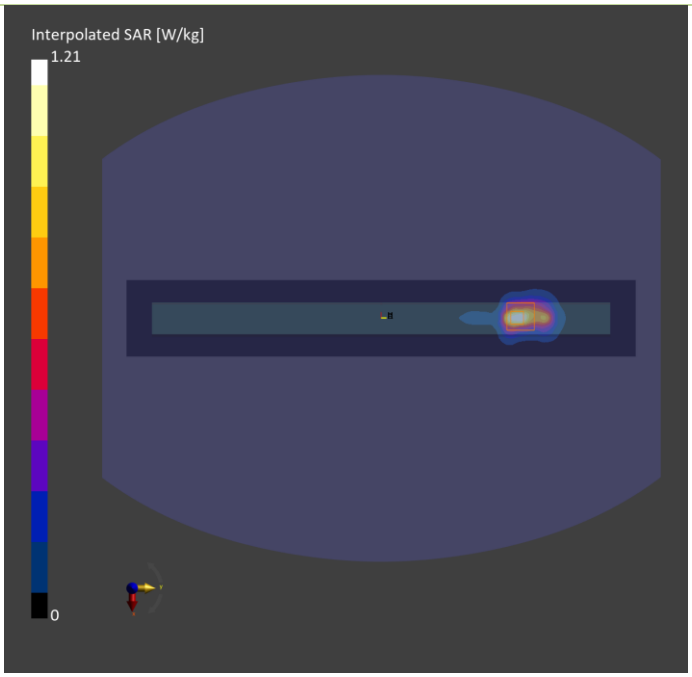
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 400.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	0.861	1.01
psSAR10g [W/kg]	0.295	0.308
Power Drift [dB]	0.03	0.07
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		7.2



Plots of Measurement

Measurement Report
P04 WLAN5.8G_802.11ac VHT80_Front Edge of Laptop_0mm_Ch155_Antenna Vender_Luxchare_Ant 0_Fan_w_o

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Front Edge of Laptop, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	4.43	5.07	33.9

Hardware Setup

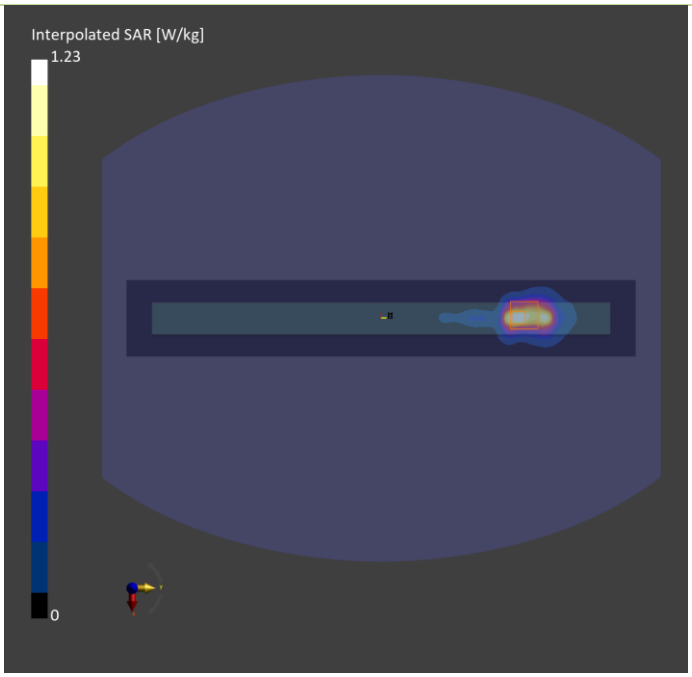
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 400.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	0.889	1.02
psSAR10g [W/kg]	0.318	0.324
Power Drift [dB]	0.06	-0.05
M2/M1 [%]		61.9
Dist 3dB Peak [mm]		6.9



Plots of Measurement

Measurement Report
P05 BT_BR_Back of Panel_25mm_Ch39_Antenna Vender_Luxchare_Ant 1_Fan_w
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Back of Panel, 25.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.000, 39	7.26	1.81	39.4

Hardware Setup

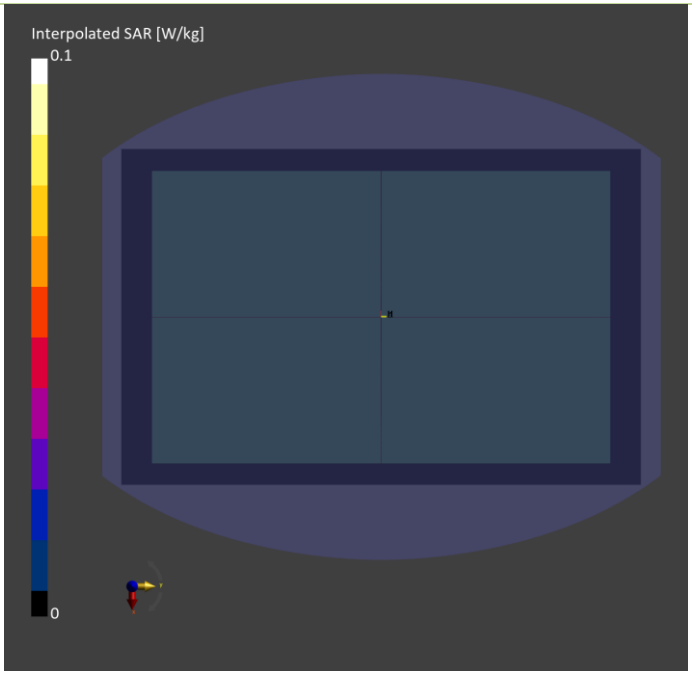
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H19T27N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	264.0 x 408.0	x x
Grid Steps [mm]	12.0 x 12.0	x x
Sensor Surface [mm]	3.0	

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	
psSAR1g [W/kg]	0	
psSAR10g [W/kg]	0	
Power Drift [dB]	0	



Plots of Measurement

Measurement Report
P06 WLAN2.4G_802.11b_Top Side of the Keyboard_0mm_Ch1_Antenna Vender_Luxchare_Ant 0_Fan_w
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Top Side of the Keyboard, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2412.000, 1	7.26	1.79	39.5

Hardware Setup

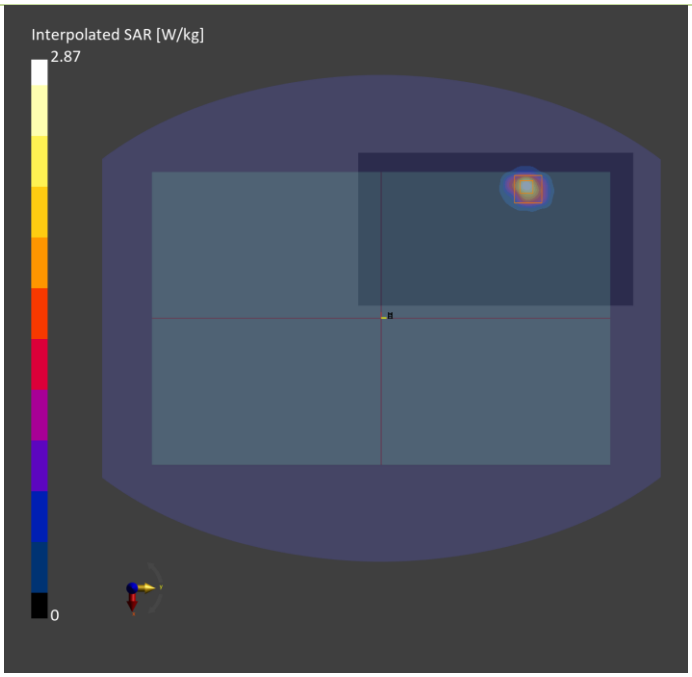
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H19T27N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	2.16	2.31
psSAR10g [W/kg]	0.934	0.956
Power Drift [dB]	0.13	-0.07
M2/M1 [%]		41.9
Dist 3dB Peak [mm]		7.1



Plots of Measurement

Measurement Report
P07 WLAN5.3G_802.11ac VHT80_Top Side of the Keyboard_0mm_Ch58_Antenna Vender_Luxchare_Ant 0_Fan_w_o

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Top Side of the Keyboard, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5290.000, 58	4.9	4.54	34.7

Hardware Setup

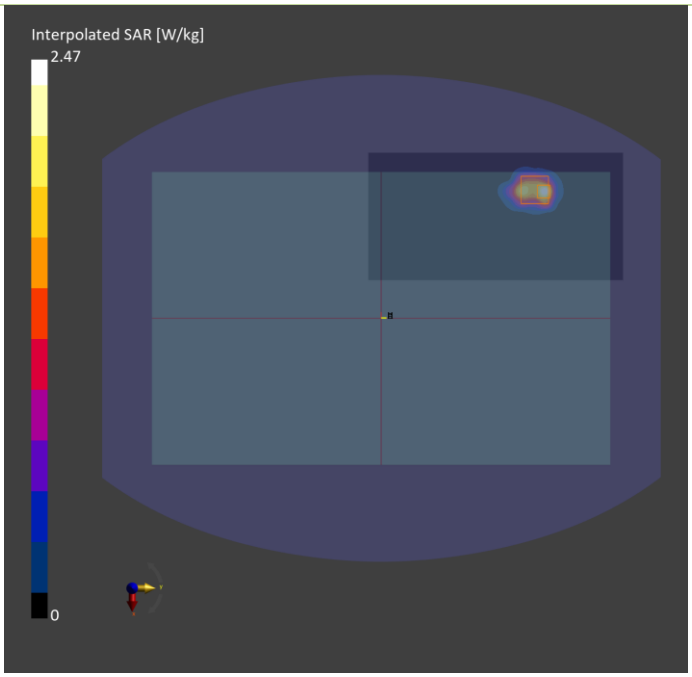
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	1.60	1.88
psSAR10g [W/kg]	0.604	0.649
Power Drift [dB]	-0.07	-0.01
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		6.9



Plots of Measurement

Measurement Report
P08 WLAN5.6G_802.11ac VHT80_Top Side of the Keyboard_0mm_Ch106_Antenna Vender_Luxchare_Ant 0_Fan_w_o

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Top Side of the Keyboard, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5530.000, 106	4.3	4.80	34.3

Hardware Setup

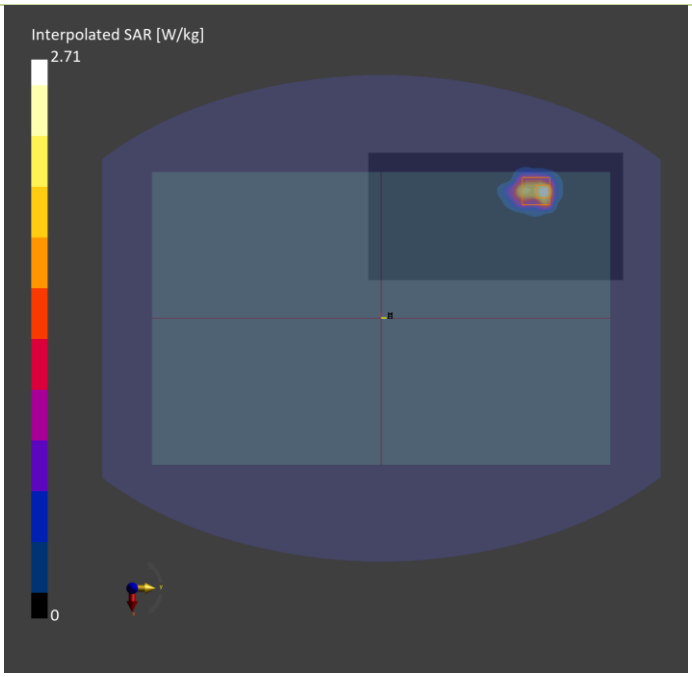
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	1.83	2.17
psSAR10g [W/kg]	0.670	0.715
Power Drift [dB]	0.02	0.07
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		6.9



Plots of Measurement

Measurement Report
P09 WLAN5.8G_802.11ac VHT80_Top Side of the Keyboard_0mm_Ch155_Antenna Vender_Luxchare_Ant 0_Fan_w_o

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BGSN-WTW-P24070587,	360.0 x 230.0 x 25.0		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,	Top Side of the Keyboard, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	4.43	5.07	33.9

Hardware Setup

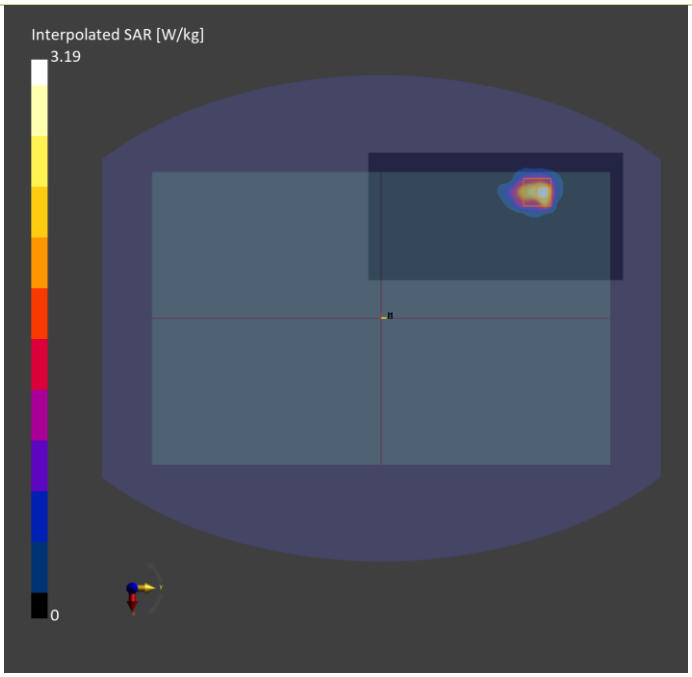
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2188	H50T60N9 , 2024-Aug-12	EX3DV4 - SN7778, 2023-11-22	DAE4 Sn1698, 2023-11-17

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2024-08-12	2024-08-12
psSAR1g [W/kg]	2.26	2.57
psSAR10g [W/kg]	0.808	0.844
Power Drift [dB]	0.00	0.04
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		6.5



Appendix 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 ℃.

2. For Section 4.4, The SAR measurement system was validated according to procedures in FCC KDB 865664 D0. 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 Appendix A of this report.

Tissue Verification									Validation for CW			Validation for Modulation				System Check					Note			
Plot No.	Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ)	Deviation Permittivity (εr)	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	Output Power (dBm)
S01	2450	21.1	1.81	39.4	1.8	39.2	0.56	0.51	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	2450	52.90	2.46	49.08	-7.21	737	7778	1698	17
S02	5250	21.1	4.50	34.8	4.71	35.9	-4.46	-3.06	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	5250	80.20	4.2	83.80	4.49	1019	7778	1698	17
S03	5600	21.1	4.87	34.2	5.07	35.5	-3.94	-3.66	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	5600	82.90	4.49	89.59	8.07	1019	7778	1698	17
S04	5750	21.1	5.04	33.9	5.22	35.4	-3.45	-4.24	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	5750	78.40	3.86	77.02	-1.76	1203	7778	1698	17
S05	2450	21.1	1.81	39.4	1.8	39.2	0.56	0.51	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	2450	52.90	2.46	49.08	-7.21	737	7778	1698	17

Tissue Verification									Validation for CW			Validation for Modulation				System Check					Note			
Plot No.	Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ)	Deviation Permittivity (εr)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 10g SAR (W/kg)	Measured 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	Output Power (dBm)
S06	2450	21.1	1.81	39.4	1.8	39.2	0.56	0.51	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	2450	24.70	1.13	22.55	-8.72	737	7778	1698	17
S07	5250	21.1	4.50	34.8	4.71	35.9	-4.46	-3.06	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	5250	23.00	1.23	24.54	6.70	1019	7778	1698	17
S08	5600	21.1	4.87	34.2	5.07	35.5	-3.94	-3.66	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	5600	23.60	1.28	25.54	8.22	1019	7778	1698	17
S09	5750	21.1	5.04	33.9	5.22	35.4	-3.45	-4.24	Pass	Pass	Pass	OFDM	N/A	Pass	Aug. 12, 2024	5750	22.40	1.1	21.95	-2.02	1203	7778	1698	17

Appendix D. Maximum Target Conducted Power

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

Tune-up Power (Full)				
WLAN 2.4GHz				
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up
802.11b	1	2412	15.5	15.5
	6	2437	15.5	15.5
	11	2462	15.5	15.5
	12	2467	15.0	15.0
	13	2472	13.0	13.0
802.11g	1	2412	15.5	15.5
	6	2437	15.5	15.5
	11	2462	15.5	15.5
	12	2467	15.5	15.5
	13	2472	15.5	15.5
802.11n HT20	1	2412	15.5	15.5
	6	2437	15.5	15.5
	11	2462	15.5	15.5
	12	2467	15.5	15.5
	13	2472	15.5	15.5
802.11n HT40	3	2422	15.5	15.5
	6	2437	15.5	15.5
	9	2452	15.5	15.5
	10	2457	15.5	15.5
	11	2462	15.5	15.5
802.11ac VHT20	1	2412	15.5	15.5
	6	2437	15.5	15.5
	11	2462	15.5	15.5
	12	2467	15.5	15.5
	13	2472	15.5	15.5
802.11ac VHT40	3	2422	15.5	15.5
	6	2437	15.5	15.5
	9	2452	15.5	15.5
	10	2457	15.5	15.5
	11	2462	15.5	15.5
802.11ax HE20	1	2412	15.5	15.5
	6	2437	15.5	15.5
	11	2462	15.5	15.5
	12	2467	15.5	15.5
	13	2472	15.5	15.5
802.11ax HE40	3	2422	15.5	15.5
	6	2437	15.5	15.5
	9	2452	15.5	15.5
	10	2457	15.5	15.5
	11	2462	15.5	15.5

Tune-up Power (Full)				
Bluetooth				
Mode	Channel	Frequency	Ant 0 Max Tune-up	Ant 1 Max Tune-up
BR / EDR	0	2402	[redacted]	6.0
	39	2441		6.0
	78	2480		6.0
LE	0	2402		6.0
	19	2440		6.0
	39	2480		6.0

Tune-up Power (Full)				
WLAN 5.2GHz				
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up
802.11a	36	5180	14.0	14.0
	40	5200	14.0	14.0
	44	5220	14.0	14.0
	48	5240	14.0	14.0
802.11n HT20	36	5180	14.0	14.0
	40	5200	14.0	14.0
	44	5220	14.0	14.0
	48	5240	14.0	14.0
802.11n HT40	38	5190	14.0	14.0
	46	5230	14.0	14.0
802.11ac VHT20	36	5180	14.0	14.0
	40	5200	14.0	14.0
	44	5220	14.0	14.0
	48	5240	14.0	14.0
802.11ac VHT40	38	5190	14.0	14.0
	46	5230	14.0	14.0
802.11ac VHT80	42	5210	14.0	14.0
802.11ax HE20	36	5180	14.0	14.0
	40	5200	14.0	14.0
	44	5220	14.0	14.0
	48	5240	14.0	14.0
802.11ax HE40	38	5190	14.0	14.0
	46	5230	14.0	14.0
802.11ax HE80	42	5210	14.0	14.0

Tune-up Power (Full)				
WLAN 5.3GHz				
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up
802.11a	52	5260	14.0	14.0
	56	5280	14.0	14.0
	60	5300	14.0	14.0
	64	5320	14.0	14.0
802.11n HT20	52	5260	14.0	14.0
	56	5280	14.0	14.0
	60	5300	14.0	14.0
	64	5320	14.0	14.0
802.11n HT40	54	5270	14.0	14.0
	62	5310	14.0	14.0
802.11ac VHT20	52	5260	14.0	14.0
	56	5280	14.0	14.0
	60	5300	14.0	14.0
	64	5320	14.0	14.0
802.11ac VHT40	54	5270	14.0	14.0
	62	5310	14.0	14.0
802.11ac VHT80	58	5290	14.0	14.0
802.11ax HE20	52	5260	14.0	14.0
	56	5280	14.0	14.0
	60	5300	14.0	14.0
	64	5320	14.0	14.0
802.11ax HE40	54	5270	14.0	14.0
	62	5310	14.0	14.0
802.11ax HE80	58	5290	14.0	14.0

Tune-up Power (Full)				
WLAN 5.6GHz				
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up
802.11a	100	5500	13.0	13.0
	116	5580	13.0	13.0
	120	5600	13.0	13.0
	124	5620	13.0	13.0
	132	5660	13.0	13.0
	140	5700	13.0	13.0
	144	5720	13.0	13.0
802.11n HT20	100	5500	13.0	13.0
	116	5580	13.0	13.0
	120	5600	13.0	13.0
	124	5620	13.0	13.0
	132	5660	13.0	13.0
	140	5700	13.0	13.0
	144	5720	13.0	13.0
802.11n HT40	102	5510	13.0	13.0
	110	5550	13.0	13.0
	118	5590	13.0	13.0
	126	5630	13.0	13.0
	134	5670	13.0	13.0
	142	5710	13.0	13.0
802.11ac VHT20	100	5500	13.0	13.0
	116	5580	13.0	13.0
	120	5600	13.0	13.0
	124	5620	13.0	13.0
	132	5660	13.0	13.0
	140	5700	13.0	13.0
	144	5720	13.0	13.0
802.11ac VHT40	102	5510	13.0	13.0
	110	5550	13.0	13.0
	118	5590	13.0	13.0
	126	5630	13.0	13.0
	134	5670	13.0	13.0
	142	5710	13.0	13.0
802.11ac VHT80	106	5530	13.0	13.0
	122	5610	13.0	13.0
	138	5690	13.0	13.0
802.11ax HE20	100	5500	13.0	13.0
	116	5580	13.0	13.0
	120	5600	13.0	13.0
	124	5620	13.0	13.0
	132	5660	13.0	13.0
	140	5700	13.0	13.0
	144	5720	13.0	13.0
802.11ax HE40	102	5510	13.0	13.0
	110	5550	13.0	13.0
	118	5590	13.0	13.0
	126	5630	13.0	13.0
	134	5670	13.0	13.0
	142	5710	13.0	13.0
802.11ax HE80	106	5530	13.0	13.0
	122	5610	13.0	13.0
	138	5690	13.0	13.0

Tune-up Power (Full)				
WLAN 5.8GHz				
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up
802.11a	149	5745	14.0	14.0
	153	5765	14.0	14.0
	157	5785	14.0	14.0
	161	5805	14.0	14.0
	165	5825	14.0	14.0
802.11n HT20	149	5745	14.0	14.0
	153	5765	14.0	14.0
	157	5785	14.0	14.0
	161	5805	14.0	14.0
	165	5825	14.0	14.0
802.11n HT40	151	5755	14.0	14.0
	159	5795	14.0	14.0
802.11ac VHT20	149	5745	14.0	14.0
	153	5765	14.0	14.0
	157	5785	14.0	14.0
	161	5805	14.0	14.0
	165	5825	14.0	14.0
802.11ac VHT40	151	5755	14.0	14.0
	159	5795	14.0	14.0
802.11ac VHT80	155	5775	14.0	14.0
802.11ax HE20	149	5745	14.0	14.0
	153	5765	14.0	14.0
	157	5785	14.0	14.0
	161	5805	14.0	14.0
	165	5825	14.0	14.0
802.11ax HE40	151	5755	14.0	14.0
	159	5795	14.0	14.0
802.11ax HE80	155	5775	14.0	14.0

Appendix E. Measured Conducted Power Result

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

Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	15.42
	6	2437	15.48
	11	2462	15.42
	12	2467	14.92
	13	2472	12.91
802.11g	1	2412	15.31
	6	2437	15.3
	11	2462	15.35
	12	2467	15.34
	13	2472	15.36
802.11n HT20	1	2412	15.28
	6	2437	15.36
	11	2462	15.33
	12	2467	15.26
	13	2472	15.39
802.11n HT40	3	2422	15.29
	6	2437	15.32
	9	2452	15.34
	10	2457	15.27
	11	2462	15.26
802.11ac VHT20	1	2412	15.4
	6	2437	15.36
	11	2462	15.36
	12	2467	15.25
	13	2472	15.3
802.11ac VHT40	3	2422	15.31
	6	2437	15.32
	9	2452	15.38
	10	2457	15.28
	11	2462	15.28
802.11ax HE20	1	2412	15.38
	6	2437	15.28
	11	2462	15.32
	12	2467	15.25
	13	2472	15.25
802.11ax HE40	3	2422	15.29
	6	2437	15.25
	9	2452	15.33
	10	2457	15.31
	11	2462	15.33

Conducted Power (Full)			
WLAN2.4GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11b	1	2412	15.43
	6	2437	15.47
	11	2462	15.41
	12	2467	14.91
	13	2472	12.94
802.11g	1	2412	15.38
	6	2437	15.29
	11	2462	15.26
	12	2467	15.33
	13	2472	15.4
802.11n HT20	1	2412	15.28
	6	2437	15.4
	11	2462	15.3
	12	2467	15.36
	13	2472	15.38
802.11n HT40	3	2422	15.31
	6	2437	15.36
	9	2452	15.35
	10	2457	15.34
	11	2462	15.38
802.11ac VHT20	1	2412	15.34
	6	2437	15.32
	11	2462	15.4
	12	2467	15.36
	13	2472	15.37
802.11ac VHT40	3	2422	15.29
	6	2437	15.34
	9	2452	15.31
	10	2457	15.4
	11	2462	15.32
802.11ax HE20	1	2412	15.27
	6	2437	15.37
	11	2462	15.35
	12	2467	15.34
	13	2472	15.27
802.11ax HE40	3	2422	15.4
	6	2437	15.27
	9	2452	15.3
	10	2457	15.3
	11	2462	15.33

Conducted Power (Full)			
Bluetooth Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
BR / EDR	0	2402	5.27
	39	2441	5.48
	78	2480	5.36
LE	0	2402	5.11
	19	2440	5.05
	39	2480	5.13

Conducted Power (Full)			
WLAN 5.2GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	36	5180	13.85
	40	5200	13.82
	44	5220	13.83
	48	5240	13.89
802.11n HT20	36	5180	13.84
	40	5200	13.84
	44	5220	13.87
	48	5240	13.83
802.11n HT40	38	5190	13.87
	46	5230	13.87
802.11ac VHT20	36	5180	13.89
	40	5200	13.87
	44	5220	13.88
	48	5240	13.86
802.11ac VHT40	38	5190	13.83
	46	5230	13.89
802.11ac VHT80	42	5210	13.97
802.11ax HE20	36	5180	13.84
	40	5200	13.88
	44	5220	13.86
	48	5240	13.84
802.11ax HE40	38	5190	13.82
	46	5230	13.88
802.11ax HE80	42	5210	13.81

Conducted Power (Full)			
WLAN 5.2GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	36	5180	13.85
	40	5200	13.87
	44	5220	13.89
	48	5240	13.86
802.11n HT20	36	5180	13.81
	40	5200	13.81
	44	5220	13.81
	48	5240	13.83
802.11n HT40	38	5190	13.86
	46	5230	13.82
802.11ac VHT20	36	5180	13.87
	40	5200	13.89
	44	5220	13.85
	48	5240	13.83
802.11ac VHT40	38	5190	13.88
	46	5230	13.84
802.11ac VHT80	42	5210	13.98
802.11ax HE20	36	5180	13.84
	40	5200	13.83
	44	5220	13.86
	48	5240	13.86
802.11ax HE40	38	5190	13.86
	46	5230	13.84
802.11ax HE80	42	5210	13.87

Conducted Power (Full)			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	52	5260	13.89
	56	5280	13.83
	60	5300	13.86
	64	5320	13.89
802.11n HT20	52	5260	13.81
	56	5280	13.89
	60	5300	13.83
	64	5320	13.82
802.11n HT40	54	5270	13.83
	62	5310	13.89
802.11ac VHT20	52	5260	13.83
	56	5280	13.81
	60	5300	13.82
	64	5320	13.88
802.11ac VHT40	54	5270	13.83
	62	5310	13.83
802.11ac VHT80	58	5290	13.98
802.11ax HE20	52	5260	13.82
	56	5280	13.88
	60	5300	13.89
	64	5320	13.83
802.11ax HE40	54	5270	13.85
	62	5310	13.86
802.11ax HE80	58	5290	13.83

Conducted Power (Full)			
WLAN 5.3GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	52	5260	13.83
	56	5280	13.83
	60	5300	13.84
	64	5320	13.89
802.11n HT20	52	5260	13.89
	56	5280	13.86
	60	5300	13.85
	64	5320	13.85
802.11n HT40	54	5270	13.84
	62	5310	13.87
802.11ac VHT20	52	5260	13.83
	56	5280	13.83
	60	5300	13.86
	64	5320	13.89
802.11ac VHT40	54	5270	13.88
	62	5310	13.89
802.11ac VHT80	58	5290	13.98
802.11ax HE20	52	5260	13.89
	56	5280	13.82
	60	5300	13.88
	64	5320	13.88
802.11ax HE40	54	5270	13.84
	62	5310	13.86
802.11ax HE80	58	5290	13.81

Conducted Power (Full)			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	100	5500	12.89
	116	5580	12.87
	120	5600	12.85
	124	5620	12.84
	132	5660	12.89
	140	5700	12.88
	144	5720	12.84
802.11n HT20	100	5500	12.82
	116	5580	12.84
	120	5600	12.84
	124	5620	12.86
	132	5660	12.87
	140	5700	12.82
	144	5720	12.85
802.11n HT40	102	5510	12.83
	110	5550	12.81
	118	5590	12.82
	126	5630	12.85
	134	5670	12.81
	142	5710	12.89
802.11ac VHT20	100	5500	12.83
	116	5580	12.82
	120	5600	12.84
	124	5620	12.82
	132	5660	12.87
	140	5700	12.88
	144	5720	12.82
802.11ac VHT40	102	5510	12.85
	110	5550	12.81
	118	5590	12.82
	126	5630	12.89
	134	5670	12.81
	142	5710	12.88
802.11ac VHT80	106	5530	12.98
	122	5610	12.92
	138	5690	12.94
802.11ax HE20	100	5500	12.87
	116	5580	12.81
	120	5600	12.85
	124	5620	12.86
	132	5660	12.83
	140	5700	12.83
	144	5720	12.89
802.11ax HE40	102	5510	12.84
	110	5550	12.89
	118	5590	12.84
	126	5630	12.86
	134	5670	12.83
	142	5710	12.88
802.11ax HE80	106	5530	12.89
	122	5610	12.82
	138	5690	12.89

Conducted Power (Full)			
WLAN 5.6GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	100	5500	12.83
	116	5580	12.85
	120	5600	12.86
	124	5620	12.87
	132	5660	12.87
	140	5700	12.87
	144	5720	12.82
802.11n HT20	100	5500	12.88
	116	5580	12.83
	120	5600	12.84
	124	5620	12.87
	132	5660	12.81
	140	5700	12.86
	144	5720	12.84
802.11n HT40	102	5510	12.85
	110	5550	12.88
	118	5590	12.83
	126	5630	12.86
	134	5670	12.84
	142	5710	12.87
802.11ac VHT20	100	5500	12.86
	116	5580	12.85
	120	5600	12.89
	124	5620	12.88
	132	5660	12.81
	140	5700	12.89
	144	5720	12.82
802.11ac VHT40	102	5510	12.89
	110	5550	12.88
	118	5590	12.88
	126	5630	12.88
	134	5670	12.82
	142	5710	12.88
802.11ac VHT80	106	5530	12.99
	122	5610	12.94
	138	5690	12.95
802.11ax HE20	100	5500	12.89
	116	5580	12.86
	120	5600	12.88
	124	5620	12.82
	132	5660	12.87
	140	5700	12.84
	144	5720	12.82
802.11ax HE40	102	5510	12.87
	110	5550	12.82
	118	5590	12.89
	126	5630	12.82
	134	5670	12.91
	142	5710	12.82
802.11ax HE80	106	5530	12.81
	122	5610	12.81
	138	5690	12.88

Conducted Power (Full)			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	149	5745	13.88
	153	5765	13.82
	157	5785	13.85
	161	5805	13.83
	165	5825	13.83
802.11n HT20	149	5745	13.89
	153	5765	13.87
	157	5785	13.87
	161	5805	13.84
	165	5825	13.82
802.11n HT40	151	5755	13.86
	159	5795	13.89
802.11ac VHT20	149	5745	13.84
	153	5765	13.89
	157	5785	13.88
	161	5805	13.85
	165	5825	13.85
802.11ac VHT40	151	5755	13.86
	159	5795	13.83
802.11ac VHT80	155	5775	13.99
802.11ax HE20	149	5745	13.84
	153	5765	13.83
	157	5785	13.83
	161	5805	13.86
	165	5825	13.87
802.11ax HE40	151	5755	13.83
	159	5795	13.82
802.11ax HE80	155	5775	13.84

Conducted Power (Full)			
WLAN 5.8GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	149	5745	13.9
	153	5765	13.89
	157	5785	13.81
	161	5805	13.8
	165	5825	13.84
802.11n HT20	149	5745	13.86
	153	5765	13.85
	157	5785	13.83
	161	5805	13.87
	165	5825	13.84
802.11n HT40	151	5755	13.86
	159	5795	13.9
802.11ac VHT20	149	5745	13.8
	153	5765	13.84
	157	5785	13.85
	161	5805	13.83
	165	5825	13.87
802.11ac VHT40	151	5755	13.89
	159	5795	13.89
802.11ac VHT80	155	5775	13.98
802.11ax HE20	149	5745	13.82
	153	5765	13.85
	157	5785	13.88
	161	5805	13.89
	165	5825	13.86
802.11ax HE40	151	5755	13.85
	159	5795	13.81
802.11ax HE80	155	5775	13.87

Appendix F. SAR Test Result

SAR Results for Body / Extremity Exposure Condition.

Note:
1. SAR testing for WLAN / BT was performed on the maximum power mode.
2. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

Body SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Antenna Vendor	Ant Status	FAN	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 of Laptop	0	6	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.48	1.00	0.05	0.66	0.66
	WLAN2.4G	802.11b	Front Edge of laptop	0	6	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.48	1.00	0.14	0.465	0.47
	WLAN2.4G	802.11b	Bottom of Laptop	0	6	Luxchare	Ant 1	w/	100.00	1.00	15.50	15.47	1.01	0	<0.001	0.00
	WLAN2.4G	802.11b	Back of Panel	25	6	Luxchare	Ant 1	w/	100.00	1.00	15.50	15.47	1.01	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side of laptop	25	6	Luxchare	Ant 1	w/	100.00	1.00	15.50	15.47	1.01	0	<0.001	0.00
	WLAN2.4G	802.11b	Left Side of Panel	25	6	Luxchare	Ant 1	w/	100.00	1.00	15.50	15.47	1.01	0	<0.001	0.00
1	WLAN2.4G	802.11b	Bottom of Laptop	0	1	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	-0.02	0.75	0.77
	WLAN2.4G	802.11b	Bottom of Laptop	0	11	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	0.1	0.564	0.58
	WLAN2.4G	802.11b	Bottom of Laptop	0	12	Luxchare	Ant 0	w/	100.00	1.00	15.00	14.92	1.02	0.12	0.436	0.44
	WLAN2.4G	802.11b	Bottom of Laptop	0	13	Luxchare	Ant 0	w/	100.00	1.00	13.00	12.91	1.02	-0.13	0.313	0.32
	WLAN2.4G	802.11b	Bottom of Laptop	0	1	Luxchare	Ant 0	w/o	100.00	1.00	15.50	15.42	1.02	-0.13	0.651	0.66
	WLAN2.4G	802.11b	Bottom of Laptop	0	1	InpaQ	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	-0.16	0.579	0.59
	WLAN2.4G	802.11b	Bottom of Laptop	0	1	InpaQ	Ant 0	w/o	100.00	1.00	15.50	15.42	1.02	-0.16	0.736	0.75
	WLAN2.4G	802.11b	Front Edge of laptop	0	1	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	0.01	0.459	0.47
	WLAN5.3G	802.11ac VHT80	Bottom of Laptop	0	58	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.98	1.00	-0.06	0.271	0.31
	WLAN5.3G	802.11ac VHT80	Front Edge of laptop	0	58	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.98	1.00	-0.05	0.882	1.01
	WLAN5.3G	802.11ac VHT80	Bottom of Laptop	0	58	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Back of Panel	25	58	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0.1	0.075	0.09
	WLAN5.3G	802.11ac VHT80	Top Side of laptop	25	58	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Left Side of Panel	25	58	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0	<0.001	0.00
2	WLAN5.3G	802.11ac VHT80	Front Edge of laptop	0	58	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.98	1.00	0.07	1.02	1.16
	WLAN5.3G	802.11ac VHT80	Front Edge of laptop	0	58	InpaQ	Ant 0	w/	87.50	1.14	14.00	13.98	1.00	-0.14	1.01	1.15
	WLAN5.3G	802.11ac VHT80	Front Edge of laptop	0	58	InpaQ	Ant 0	w/o	87.50	1.14	14.00	13.98	1.00	-0.03	0.976	1.11
	WLAN5.3G	802.11ac VHT80	Front Edge of laptop	0	58	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.98	1.00	0.07	0.996	1.14
	WLAN5.3G	802.11ac VHT80	Bottom of Laptop	0	58	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.98	1.00	-0.1	0.36	0.41
	WLAN5.6G	802.11ac VHT80	Bottom of Laptop	0	106	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.98	1.00	0.02	0.304	0.35
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	106	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.98	1.00	0.04	0.874	1.00
	WLAN5.6G	802.11ac VHT80	Bottom of Laptop	0	106	Luxchare	Ant 1	w/	87.50	1.14	13.00	12.99	1.00	-0.01	0	0.00
	WLAN5.6G	802.11ac VHT80	Back of Panel	25	106	Luxchare	Ant 1	w/	87.50	1.14	13.00	12.99	1.00	0.04	0.09	0.10
	WLAN5.6G	802.11ac VHT80	Top Side of laptop	25	106	Luxchare	Ant 1	w/	87.50	1.14	13.00	12.99	1.00	0.16	0.066	0.08
	WLAN5.6G	802.11ac VHT80	Left Side of Panel	25	106	Luxchare	Ant 1	w/	87.50	1.14	13.00	12.99	1.00	-0.19	0	0.00
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	122	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.92	1.02	0.06	0.862	1.00
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	138	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.94	1.01	0.06	0.791	0.91
3	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	106	Luxchare	Ant 0	w/o	87.50	1.14	13.00	12.98	1.00	0.07	1.01	1.15
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	122	Luxchare	Ant 0	w/o	87.50	1.14	13.00	12.92	1.02	0.03	0.932	1.08
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	138	Luxchare	Ant 0	w/o	87.50	1.14	13.00	12.94	1.01	0.11	0.947	1.09
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	106	InpaQ	Ant 0	w/	87.50	1.14	13.00	12.98	1.00	0.13	1	1.14
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	122	InpaQ	Ant 0	w/	87.50	1.14	13.00	12.92	1.02	0.06	0.939	1.09
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	138	InpaQ	Ant 0	w/	87.50	1.14	13.00	12.94	1.01	-0.02	0.956	1.10
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	106	InpaQ	Ant 0	w/o	87.50	1.14	13.00	12.98	1.00	-0.15	0.964	1.10
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	122	InpaQ	Ant 0	w/o	87.50	1.14	13.00	12.92	1.02	0.03	0.925	1.08
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	138	InpaQ	Ant 0	w/o	87.50	1.14	13.00	12.94	1.01	0.07	0.947	1.09
	WLAN5.6G	802.11ac VHT80	Front Edge of laptop	0	106	Luxchare	Ant 0	w/o	87.50	1.14	13.00	12.98	1.00	0.07	0.995	1.13
	WLAN5.6G	802.11ac VHT80	Bottom of Laptop	0	106	Luxchare	Ant 0	w/o	87.50	1.14	13.00	12.98	1.00	-0.11	0.444	0.51
	WLAN5.8G	802.11ac VHT80	Bottom of Laptop	0	155	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.99	1.00	-0.13	0.317	0.36
	WLAN5.8G	802.11ac VHT80	Front Edge of laptop	0	155	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.99	1.00	0.17	0.882	1.01
	WLAN5.8G	802.11ac VHT80	Bottom of Laptop	0	155	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	-0.09	0	0.00
	WLAN5.8G	802.11ac VHT80	Back of Panel	25	155	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0.09	0.136	0.16
	WLAN5.8G	802.11ac VHT80	Top Side of laptop	25	155	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0.07	0.089	0.10
	WLAN5.8G	802.11ac VHT80	Left Side of Panel	25	155	Luxchare	Ant 1	w/	87.50	1.14	14.00	13.98	1.00	0.06	0	0.00
4	WLAN5.8G	802.11ac VHT80	Front Edge of laptop	0	155	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.99	1.00	-0.05	1.02	1.16
	WLAN5.8G	802.11ac VHT80	Front Edge of laptop	0	155	InpaQ	Ant 0	w/	87.50	1.14	14.00	13.99	1.00	-0.19	0.976	1.11
	WLAN5.8G	802.11ac VHT80	Front Edge of laptop	0	155	InpaQ	Ant 0	w/o	87.50	1.14	14.00	13.99	1.00	0.13	0.933	1.06
	WLAN5.8G	802.11ac VHT80	Front Edge of laptop	0	155	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.99	1.00	-0.05	0.991	1.13
	WLAN5.8G	802.11ac VHT80	Bottom of Laptop	0	155	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.99	1.00	-0.08	0.518	0.59
	BT	BR	Bottom of Laptop	0	39	Luxchare	Ant 1	w/	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00
5	BT	BR	Back of Panel	25	39	Luxchare	Ant 1	w/	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00
	BT	BR	Top Side of laptop	25	39	Luxchare	Ant 1	w/	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00
	BT	BR	Left Side of Panel	25	39	Luxchare	Ant 1	w/	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00
	BT	BR	Back of Panel	25	0	Luxchare	Ant 1	w/	100.00	1.00	6.00	5.27	1.18	0	<0.001	0.00
	BT	BR	Back of Panel	25	78	Luxchare	Ant 1	w/	100.00	1.00	6.00	5.36	1.16	0	<0.001	0.00
	BT	BR	Back of Panel	25	39	Luxchare	Ant 1	w/o	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00
	BT	BR	Back of Panel	25	39	InpaQ	Ant 1	w/	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00
	BT	BR	Back of Panel	25	39	InpaQ	Ant 1	w/o	100.00	1.00	6.00	5.48	1.13	0	<0.001	0.00

Limbs SAR Test Result

System & Position						DUT Configuration			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Antenna Vendor	Ant Status	FAN	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN2.4G	802.11b	Left Edge of laptop	0	6	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.48	1.00	-0.1	0.039	0.04
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	6	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.48	1.00	0.02	0.723	0.72
6	WLAN2.4G	802.11b	Top Side of the Keyboard	0	1	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	-0.07	0.956	0.98
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	11	Luxchare	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	0.03	0.771	0.79
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	12	Luxchare	Ant 0	w/	100.00	1.00	15.00	14.92	1.02	-0.1	0.672	0.69
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	13	Luxchare	Ant 0	w/	100.00	1.00	13.00	12.91	1.02	0.13	0.419	0.43
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	1	Luxchare	Ant 0	w/o	100.00	1.00	15.50	15.42	1.02	-0.02	0.809	0.83
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	1	InpaQ	Ant 0	w/	100.00	1.00	15.50	15.42	1.02	0.02	0.703	0.72
	WLAN2.4G	802.11b	Top Side of the Keyboard	0	1	InpaQ	Ant 0	w/o	100.00	1.00	15.50	15.42	1.02	0.1	0.915	0.93
	WLAN5.3G	802.11ac VHT80	Left Edge of laptop	0	58	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.98	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Top Side of the Keyboard	0	58	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.98	1.00	0.01	0.642	0.73
7	WLAN5.3G	802.11ac VHT80	Top Side of the Keyboard	0	58	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.98	1.00	-0.01	0.649	0.74
	WLAN5.3G	802.11ac VHT80	Top Side of the Keyboard	0	58	InpaQ	Ant 0	w/	87.50	1.14	14.00	13.98	1.00	-0.05	0.629	0.72
	WLAN5.3G	802.11ac VHT80	Top Side of the Keyboard	0	58	InpaQ	Ant 0	w/o	87.50	1.14	14.00	13.98	1.00	-0.16	0.621	0.71
	WLAN5.6G	802.11ac VHT80	Left Edge of laptop	0	106	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.98	1.00	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Top Side of the Keyboard	0	106	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.98	1.00	0.08	0.708	0.81
	WLAN5.6G	802.11ac VHT80	Top Side of the Keyboard	0	122	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.92	1.02	-0.16	0.695	0.81
	WLAN5.6G	802.11ac VHT80	Top Side of the Keyboard	0	138	Luxchare	Ant 0	w/	87.50	1.14	13.00	12.94	1.01	-0.04	0.619	0.71
8	WLAN5.6G	802.11ac VHT80	Top Side of the Keyboard	0	106	Luxchare	Ant 0	w/o	87.50	1.14	13.00	12.98	1.00	0.07	0.715	0.82
	WLAN5.6G	802.11ac VHT80	Top Side of the Keyboard	0	106	InpaQ	Ant 0	w/	87.50	1.14	13.00	12.98	1.00	-0.02	0.688	0.78
	WLAN5.6G	802.11ac VHT80	Top Side of the Keyboard	0	106	InpaQ	Ant 0	w/o	87.50	1.14	13.00	12.98	1.00	-0.06	0.682	0.78
	WLAN5.8G	802.11ac VHT80	Left Edge of laptop	0	155	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.99	1.00	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side of the Keyboard	0	155	Luxchare	Ant 0	w/	87.50	1.14	14.00	13.99	1.00	0.16	0.836	0.95
9	WLAN5.8G	802.11ac VHT80	Top Side of the Keyboard	0	155	Luxchare	Ant 0	w/o	87.50	1.14	14.00	13.99	1.00	0.04	0.844	0.96
	WLAN5.8G	802.11ac VHT80	Top Side of the Keyboard	0	155	InpaQ	Ant 0	w/	87.50	1.14	14.00	13.99	1.00	-0.04	0.82	0.93
	WLAN5.8G	802.11ac VHT80	Top Side of the Keyboard	0	155	InpaQ	Ant 0	w/o	87.50	1.14	14.00	13.99	1.00	-0.16	0.812	0.93

Appendix H. Analysis of Simultaneous Transmission.

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 / Extremity Exposure Condition
A	MAX WLAN 2.4G + BT_Ant1	Yes
B	MAX WLAN 5G + BT_Ant1	Yes

Notes

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

Simultaneous Transmission SAR Evaluation (Body)					
Position	1	2	3	A(1+3)	B(2+3)
	Max WLAN 2.4GHz	Max WLAN 5GHz	Max 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		
Bottom of Laptop	0.77	0.59	0.00	0.77	0.59
Back of Panel	0.00	0.16	0.00	0.00	0.16
Top Side of laptop	0.00	0.10	0.00	0.00	0.10
Left Side of Panel	0.00	0.00	0.00	0.00	0.00
Front Edge of laptop	0.47	1.16	0.00	0.47	1.16

Simultaneous Transmission SAR Evaluation (Limbs)					
Position	1	2	3	A(1+3)	B(2+3)
	Max WLAN 2.4GHz	**Max WLAN 5GHz**	**Max BT Ant 1**	Summimg result 10g SAR W/kg	Summimg result 10g SAR W/kg
	10g SAR W/kg	**10g SAR W/kg**	**10g SAR W/kg**		
Left Edge of laptop	0.04	0.00	N/A	0.04	0.00
Top Side of the Keyboard	0.98	0.96	N/A	0.98	0.96