

This is Appendix for Test report No. 14993586H-A.

Appendix B: SAR Measurement data

Plot 1 WLAN
UL Japan, Ltd. ISE Laboratory SAR#2
Date/Time:2023-12-15, 11:50
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 | EDGE BOTTOM, 0.00 | WLAN 2.4GHz | WLAN, 10415-AAA | 2442.000, 7 | 7.69 | 1.73 | 39.7 |

Hardware Setup

| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|---|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) - 1207 | HBBL-600-10000 2023-Dec-14, 2023-Dec-14 | EX3DV4 - SN3917, 2023-05-23 | DAE4 Sn1372, 2023-03-16 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 340.0 x 400.0 | 30.0 x 30.0 x 60.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 5.0 x 5.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |

Measurement Results

| | Area Scan | Zoom Scan |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.024 | 0.023 |
| psSAR10g [W/Kg] | 0.014 | 0.013 |
| Power Drift [dB] | -0.35 | 0.06 |
| M2/M1 [%] | | 83.6 |
| Dist 3dB Peak [mm] | | 19.5 |



Plot 2 WLAN

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|------------------------------|-------------------|-----------------|---------------------------------|-------------------|------------------------|------------------|
| Flat, HSL | EDGE BOTTOM, 0.00 | U-NII-1, U-NII-2A | WLAN, 10417-AAD | 5260.000, 52 | 5.19 | 4.78 | 37.2 |

Hardware Setup

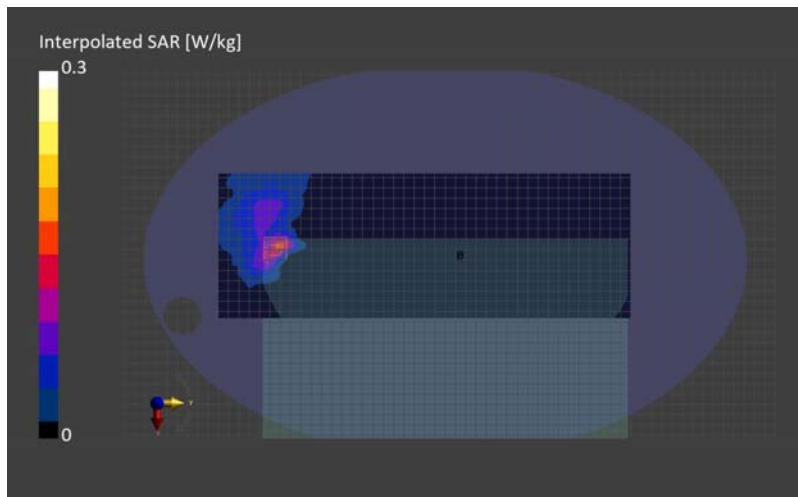
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|---|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) - 1203 | HBBL-600-10000 2023-Dec-15, 2023-Dec-15 | EX3DV4 - SN3825, 2023-07-12 | DAE4 Sn1369, 2023-05-23 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 400.0 | 22.0 x 22.0 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 |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.120 | 0.129 |
| psSAR10g [W/Kg] | 0.045 | 0.040 |
| Power Drift [dB] | N/A | -0.16 |
| M2/M1 [%] | | 62.6 |
| Dist 3dB Peak [mm] | | 7.2 |



Plot 3 WLAN

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 | EDGE BOTTOM, 0.00 | U-NII-2C Standalone | WLAN, 10544-AAD | 5690.000, 138 | 4.7 | 5.28 | 36.5 |

Hardware Setup

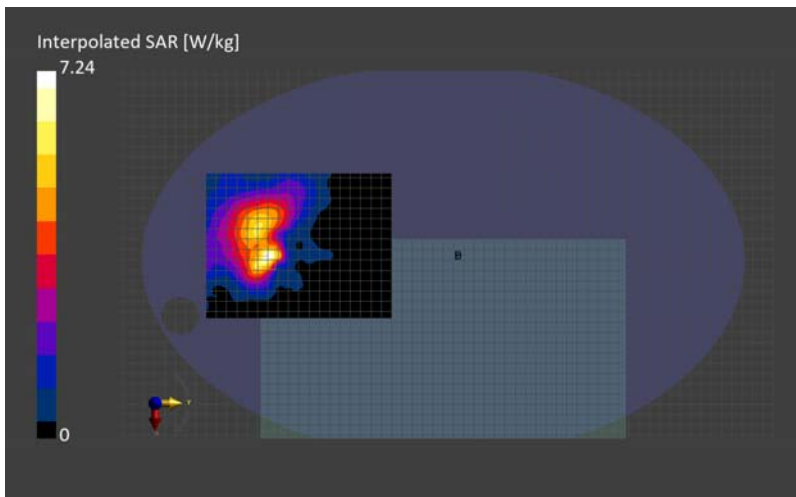
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|---|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) - 1203 | HBBL-600-10000 2023-Dec-15, 2023-Dec-15 | EX3DV4 - SN3825, 2023-07-12 | DAE4 Sn1369, 2023-05-23 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 180.0 | 22.0 x 22.0 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 |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.281 | 0.304 |
| psSAR10g [W/Kg] | 0.111 | 0.102 |
| Power Drift [dB] | -0.19 | -0.05 |
| M2/M1 [%] | | 61.9 |
| Dist 3dB Peak [mm] | | 6.9 |



Plot 4 WLAN

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 | EDGE BOTTOM, 0.00 | WLAN 5GHz | WLAN, 10534-AAD | 5795.000, 159 | 4.72 | 5.40 | 36.4 |

Hardware Setup

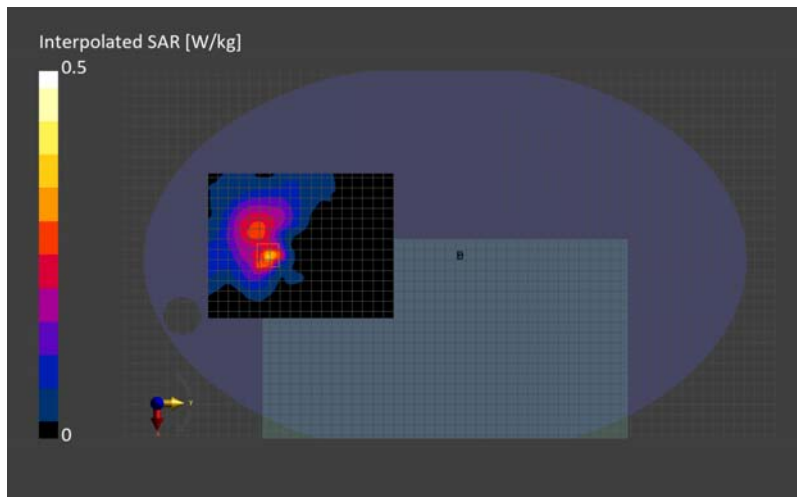
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|---|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) - 1203 | HBBL-600-10000 2023-Dec-15, 2023-Dec-15 | EX3DV4 - SN3825, 2023-07-12 | DAE4 Sn1369, 2023-05-23 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 180.0 | 22.0 x 22.0 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 |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.254 | 0.261 |
| psSAR10g [W/Kg] | 0.097 | 0.090 |
| Power Drift [dB] | -0.09 | 0.17 |
| M2/M1 [%] | | 61.0 |
| Dist 3dB Peak [mm] | | 6.5 |



Plot 5 WLAN

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 | EDGE BOTTOM, 0.00 | Custom Band | CW, 10534-AAD | 5835.000, 5835000 | 4.72 | 5.39 | 36.3 |

Hardware Setup

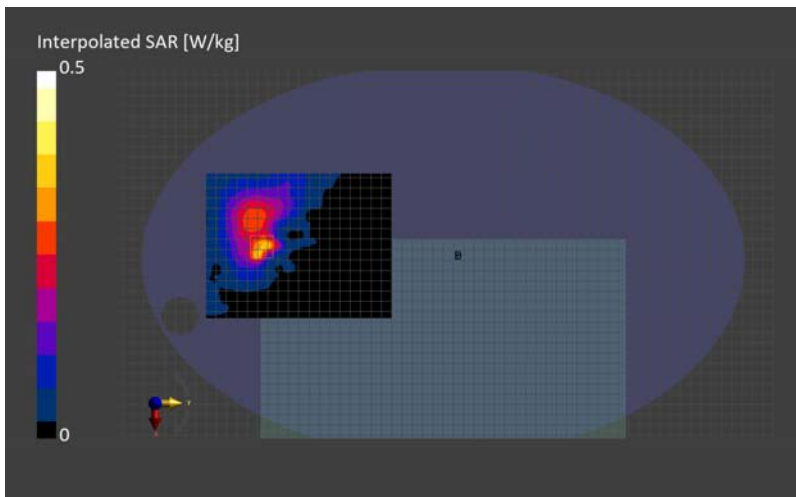
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|------------------------------------|---|-----------------------------|-------------------------|
| ELI V5.0 (20deg probe tilt) - 1203 | HBBL-600-10000 2023-Dec-15, 2023-Dec-15 | EX3DV4 - SN3825, 2023-07-12 | DAE4 Sn1369, 2023-05-23 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 140.0 x 180.0 | 22.0 x 22.0 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 |
|--------------------|-----------|-----------|
| psSAR1g [W/Kg] | 0.268 | 0.288 |
| psSAR10g [W/Kg] | 0.107 | 0.103 |
| Power Drift [dB] | 0.18 | 0.14 |
| M2/M1 [%] | | 60.9 |
| Dist 3dB Peak [mm] | | 6.9 |



Plot 6 WLAN

Device Under Test Properties

| | | | |
|---------------------|----------------------|------|----------|
| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
| , | 56.0 x 354.0 x 293.0 | | Laptop |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|-------------|---------------|---------------------------------|-------------------|
| 5G | EDGE BOTTOM, 2.00 | Custom Band | CW, 11026-AAA | 6425.0, 6425000 | 1.0 |

Hardware Setup

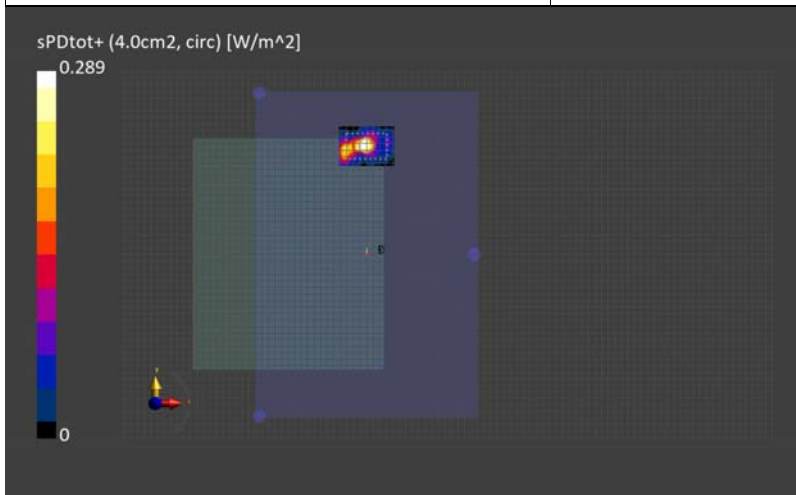
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - 1038 | Air - | EUmmWV4 - SN9450_F1-55GHz, 2023-11-07 | DAE4 Sn1372, 2023-03-16 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 80.0 x 60.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |
| MAIA | Y |

Measurement Results

| | |
|------------------------------|-------------------|
| Scan Type | 5G Scan |
| Date | 2024-01-08, 11:03 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 0.134 |
| psPDtot+ [W/m ²] | 0.289 |
| psPDmod+ [W/m ²] | 0.670 |
| E _{max} [V/m] | 16.5 |
| Power Drift [dB] | -0.10 |



Plot 7 WLAN

Device Under Test Properties

| | | | |
|---------------------|----------------------|------|----------|
| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
| , | 56.0 x 354.0 x 293.0 | | Laptop |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|---------|-----------------|---------------------------------|-------------------|
| 5G | EDGE BOTTOM, 2.00 | U-NII-6 | WLAN, 10554-AAE | 6505.0, 111 | 1.0 |

Hardware Setup

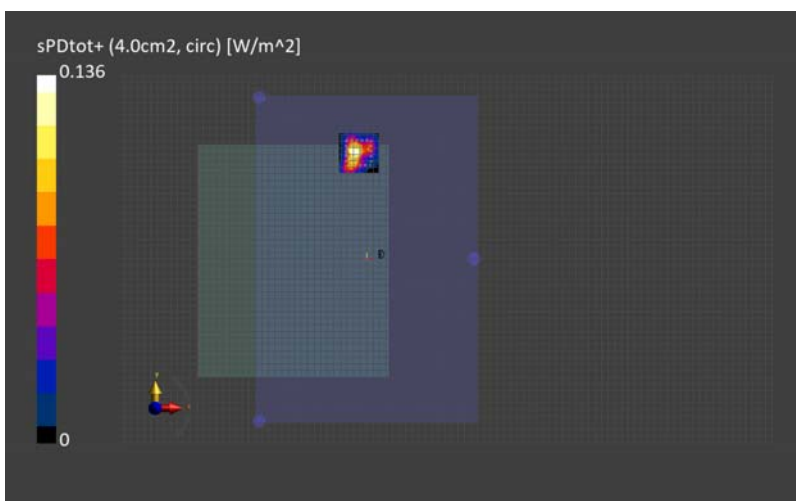
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - 1038 | Air - | EUmmWV4 - SN9450_F1-55GHz, 2023-11-07 | DAE4 Sn1372, 2023-03-16 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 60.0 x 60.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |
| MAIA | Y |

Measurement Results

| | |
|------------------------------|-------------------|
| Scan Type | 5G Scan |
| Date | 2024-01-08, 16:23 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 0.056 |
| psPDtot+ [W/m ²] | 0.136 |
| psPDmod+ [W/m ²] | 0.253 |
| E _{max} [V/m] | 9.16 |
| Power Drift [dB] | -0.15 |



Plot 8 WLAN

Device Under Test Properties

| | | | |
|---------------------|----------------------|------|----------|
| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
| , | 56.0 x 354.0 x 293.0 | | Laptop |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|---------|-----------------|---------------------------------|-------------------|
| 5G | EDGE BOTTOM, 2.00 | U-NII-7 | WLAN, 11026-AAA | 6585.0, 127 | 1.0 |

Hardware Setup

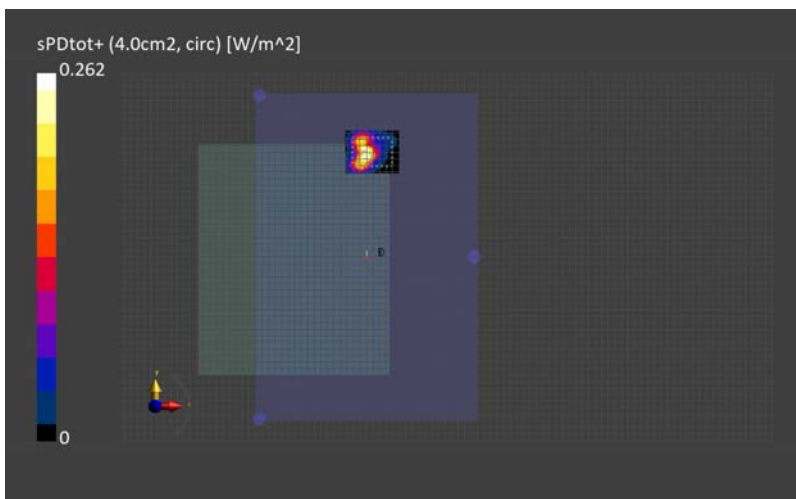
| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - 1038 | Air - | EUmmWV4 - SN9450_F1-55GHz, 2023-11-07 | DAE4 Sn1372, 2023-03-16 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 80.0 x 60.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |
| MAIA | Y |

Measurement Results

| | |
|------------------------------|-------------------|
| Scan Type | 5G Scan |
| Date | 2024-01-09, 11:17 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 0.118 |
| psPDtot+ [W/m ²] | 0.262 |
| psPDmod+ [W/m ²] | 0.549 |
| E _{max} [V/m] | 14.4 |
| Power Drift [dB] | -0.15 |



Plot 9 WLAN

Device Under Test Properties

| | | | |
|---------------------|----------------------|------|----------|
| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
| , | 56.0 x 354.0 x 293.0 | | Laptop |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|-----------------|------------------------------|-------------|---------------|---------------------------------|-------------------|
| 5G | EDGE BOTTOM, 2.00 | Custom Band | CW, 11026-AAA | 6905.0, 6905000 | 1.0 |

Hardware Setup

| | | | |
|---------------|--------|---------------------------------------|-------------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave - 1038 | Air - | EUmmWV4 - SN9450_F1-55GHz, 2023-11-07 | DAE4 Sn1372, 2023-03-16 |

Scans Setup

| | |
|---------------------|-----------------|
| Scan Type | 5G Scan |
| Grid Extents [mm] | 80.0 x 60.0 |
| Grid Steps [lambda] | 0.0625 x 0.0625 |
| Sensor Surface [mm] | 2.0 |
| MAIA | Y |

Measurement Results

| | |
|------------------------------|-------------------|
| Scan Type | 5G Scan |
| Date | 2024-01-09, 15:09 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m ²] | 0.104 |
| psPDtot+ [W/m ²] | 0.124 |
| psPDmod+ [W/m ²] | 0.126 |
| E _{max} [V/m] | 8.03 |
| Power Drift [dB] | -0.14 |

