

| WWAN Band   | Exposure Position   | 1                | 2                | 3                | 4                | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) |
|-------------|---------------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|             |                     | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        | Bluetooth        |                                   |                                   |                                   |
|             |                     | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                   |                                   |                                   |
| LTE Band 13 | Right Cheek at 0mm  | 1.036            | 0.217            | 0.219            | 0.109            | 1.25                              | 1.26                              | 1.15                              |
|             | Right Tilted at 0mm | 0.802            | 0.209            | 0.279            | 0.089            | 1.01                              | 1.08                              | 0.89                              |
|             | Left Cheek at 0mm   | 0.754            | 0.472            | 0.418            | 0.210            | 1.23                              | 1.17                              | 0.96                              |
|             | Left Tilted at 0mm  | 0.683            | 0.371            | 0.453            | 0.193            | 1.05                              | 1.14                              | 0.88                              |
| LTE Band 26 | Right Cheek at 0mm  | 1.093            | 0.217            | 0.219            | 0.109            | 1.31                              | 1.31                              | 1.20                              |
|             | Right Tilted at 0mm | 0.686            | 0.209            | 0.279            | 0.089            | 0.90                              | 0.97                              | 0.78                              |
|             | Left Cheek at 0mm   | 0.719            | 0.472            | 0.418            | 0.210            | 1.19                              | 1.14                              | 0.93                              |
|             | Left Tilted at 0mm  | 0.656            | 0.371            | 0.453            | 0.193            | 1.03                              | 1.11                              | 0.85                              |
| LTE Band 41 | Right Cheek at 0mm  | 0.585            | 0.217            | 0.219            | 0.109            | 0.80                              | 0.80                              | 0.69                              |
|             | Right Tilted at 0mm | 1.073            | 0.209            | 0.279            | 0.089            | 1.28                              | 1.35                              | 1.16                              |
|             | Left Cheek at 0mm   | 0.588            | 0.472            | 0.418            | 0.210            | 1.06                              | 1.01                              | 0.80                              |
|             | Left Tilted at 0mm  | 0.589            | 0.371            | 0.453            | 0.193            | 0.96                              | 1.04                              | 0.78                              |
| LTE Band 66 | Right Cheek at 0mm  | 0.785            | 0.217            | 0.219            | 0.109            | 1.00                              | 1.00                              | 0.89                              |
|             | Right Tilted at 0mm | 1.053            | 0.209            | 0.279            | 0.089            | 1.26                              | 1.33                              | 1.14                              |
|             | Left Cheek at 0mm   | 0.654            | 0.472            | 0.418            | 0.210            | 1.13                              | 1.07                              | 0.86                              |
|             | Left Tilted at 0mm  | 0.777            | 0.371            | 0.453            | 0.193            | 1.15                              | 1.23                              | 0.97                              |

## < Body Worn Exposure Condition >

| WWAN Band   | Exposure Position | 1                | 2                | 3                | 4                | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) |
|-------------|-------------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|             |                   | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        | Bluetooth        |                                   |                                   |                                   |
|             |                   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                   |                                   |                                   |
| GSM850      | Front at 10mm -   | 0.347            | 0.186            | 0.219            | 0.046            | 0.53                              | 0.57                              | 0.39                              |
|             | Back at 10mm -    | 0.584            | 0.361            | 0.718            | 0.069            | 0.94                              | 1.30                              | 0.65                              |
| GSM1900     | Front at 10mm -   | 0.334            | 0.186            | 0.219            | 0.046            | 0.52                              | 0.55                              | 0.38                              |
|             | Back at 10mm -    | 0.522            | 0.361            | 0.718            | 0.069            | 0.88                              | 1.24                              | 0.59                              |
| WCDMA II    | Front at 10mm -   | 0.400            | 0.186            | 0.219            | 0.046            | 0.59                              | 0.62                              | 0.45                              |
|             | Back at 10mm -    | 0.627            | 0.361            | 0.718            | 0.069            | 0.99                              | 1.35                              | 0.70                              |
| WCDMA IV    | Front at 10mm -   | 0.412            | 0.186            | 0.219            | 0.046            | 0.60                              | 0.63                              | 0.46                              |
|             | Back at 10mm -    | 0.734            | 0.361            | 0.718            | 0.069            | 1.09                              | 1.45                              | 0.80                              |
| WCDMA V     | Front at 10mm -   | 0.271            | 0.186            | 0.219            | 0.046            | 0.46                              | 0.49                              | 0.32                              |
|             | Back at 10mm -    | 0.441            | 0.361            | 0.718            | 0.069            | 0.80                              | 1.16                              | 0.51                              |
| LTE Band 2  | Front at 10mm -   | 0.404            | 0.186            | 0.219            | 0.046            | 0.59                              | 0.62                              | 0.45                              |
|             | Back at 10mm -    | 0.577            | 0.361            | 0.718            | 0.069            | 0.94                              | 1.30                              | 0.65                              |
| LTE Band 7  | Front at 10mm -   | 0.543            | 0.186            | 0.219            | 0.046            | 0.73                              | 0.76                              | 0.59                              |
|             | Back at 10mm -    | 0.787            | 0.361            | 0.718            | 0.069            | 1.15                              | 1.51                              | 0.86                              |
| LTE Band 13 | Front at 10mm -   | 0.218            | 0.186            | 0.219            | 0.046            | 0.40                              | 0.44                              | 0.26                              |
|             | Back at 10mm -    | 0.386            | 0.361            | 0.718            | 0.069            | 0.75                              | 1.10                              | 0.46                              |

| WWAN Band   | Exposure Position | 1                | 2                | 3                | 4                | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) |
|-------------|-------------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|             |                   | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        | Bluetooth        |                                   |                                   |                                   |
|             |                   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                   |                                   |                                   |
| LTE Band 26 | Front at 10mm -   | 0.267            | 0.186            | 0.219            | 0.046            | 0.45                              | 0.49                              | 0.31                              |
|             | Back at 10mm -    | 0.450            | 0.361            | 0.718            | 0.069            | 0.81                              | 1.17                              | 0.52                              |
| LTE Band 41 | Front at 10mm -   | 0.400            | 0.186            | 0.219            | 0.046            | 0.59                              | 0.62                              | 0.45                              |
|             | Back at 10mm -    | 0.560            | 0.361            | 0.718            | 0.069            | 0.92                              | 1.28                              | 0.63                              |
| LTE Band 66 | Front at 10mm -   | 0.356            | 0.186            | 0.219            | 0.046            | 0.54                              | 0.57                              | 0.40                              |
|             | Back at 10mm -    | 0.658            | 0.361            | 0.718            | 0.069            | 1.02                              | 1.38                              | 0.73                              |

## < Hotspot Exposure Condition >

| WWAN Band | Exposure Position     | 1                | 2                | 3                | 4                | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|-----------------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|           |                       | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        | Bluetooth        |                                   |                                   |                                   |
|           |                       | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                   |                                   |                                   |
| GSM850    | Front at 10mm -       | 0.347            | 0.186            | 0.164            | 0.046            | 0.53                              | 0.51                              | 0.39                              |
|           | Back at 10mm -        | 0.584            | 0.361            | 0.718            | 0.069            | 0.94                              | 1.30                              | 0.65                              |
|           | Left side at 10mm -   | 0.241            |                  |                  |                  | 0.24                              | 0.24                              | 0.24                              |
|           | Right side at 10mm -  | 0.412            | 0.160            | 0.290            | 0.036            | 0.57                              | 0.70                              | 0.45                              |
|           | Top side at 10mm -    | 0.266            | 0.178            | 0.555            | 0.036            | 0.44                              | 0.82                              | 0.30                              |
|           | Bottom side at 10mm - | 0.296            |                  |                  |                  | 0.30                              | 0.30                              | 0.30                              |
| GSM1900   | Front at 10mm -       | 0.334            | 0.186            | 0.164            | 0.046            | 0.52                              | 0.50                              | 0.38                              |
|           | Back at 10mm -        | 0.522            | 0.361            | 0.718            | 0.069            | 0.88                              | 1.24                              | 0.59                              |
|           | Left side at 10mm -   | 0.284            |                  |                  |                  | 0.28                              | 0.28                              | 0.28                              |
|           | Right side at 10mm -  | 0.075            | 0.160            | 0.290            | 0.036            | 0.23                              | 0.36                              | 0.11                              |
|           | Top side at 10mm -    | 0.657            | 0.178            | 0.555            | 0.036            | 0.83                              | 1.21                              | 0.69                              |
|           | Bottom side at 10mm - | 0.577            |                  |                  |                  | 0.58                              | 0.58                              | 0.58                              |
| WCDMA II  | Front at 10mm -       | 0.400            | 0.186            | 0.164            | 0.046            | 0.59                              | 0.56                              | 0.45                              |
|           | Back at 10mm -        | 0.627            | 0.361            | 0.718            | 0.069            | 0.99                              | 1.35                              | 0.70                              |
|           | Left side at 10mm -   | 0.462            |                  |                  |                  | 0.46                              | 0.46                              | 0.46                              |
|           | Right side at 10mm -  | 0.157            | 0.160            | 0.290            | 0.036            | 0.32                              | 0.45                              | 0.19                              |
|           | Top side at 10mm -    | 0.629            | 0.178            | 0.555            | 0.036            | 0.81                              | 1.18                              | 0.67                              |
|           | Bottom side at 10mm - | 0.652            |                  |                  |                  | 0.65                              | 0.65                              | 0.65                              |
| WCDMA IV  | Front at 10mm -       | 0.412            | 0.186            | 0.164            | 0.046            | 0.60                              | 0.58                              | 0.46                              |
|           | Back at 10mm -        | 0.734            | 0.361            | 0.718            | 0.069            | 1.09                              | 1.45                              | 0.80                              |
|           | Left side at 10mm -   | 0.263            |                  |                  |                  | 0.26                              | 0.26                              | 0.26                              |
|           | Right side at 10mm -  | 0.167            | 0.160            | 0.290            | 0.036            | 0.33                              | 0.46                              | 0.20                              |
|           | Top side at 10mm -    | 0.763            | 0.178            | 0.555            | 0.036            | 0.94                              | 1.32                              | 0.80                              |
|           | Bottom side at 10mm - | 0.675            |                  |                  |                  | 0.68                              | 0.68                              | 0.68                              |
| WCDMA V   | Front at 10mm -       | 0.271            | 0.186            | 0.164            | 0.046            | 0.46                              | 0.43                              | 0.32                              |

| WWAN Band   | Exposure Position     | 1                | 2                | 3                | 4                | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) |
|-------------|-----------------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|             |                       | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        | Bluetooth        |                                   |                                   |                                   |
|             |                       | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                   |                                   |                                   |
|             | Back at 10mm -        | 0.441            | 0.361            | 0.718            | 0.069            | 0.80                              | 1.16                              | 0.51                              |
|             | Left side at 10mm -   | 0.179            |                  |                  |                  | 0.18                              | 0.18                              | 0.18                              |
|             | Right side at 10mm -  | 0.316            | 0.160            | 0.290            | 0.036            | 0.48                              | 0.61                              | 0.35                              |
|             | Top side at 10mm -    | 0.185            | 0.178            | 0.555            | 0.036            | 0.36                              | 0.74                              | 0.22                              |
|             | Bottom side at 10mm - | 0.215            |                  |                  |                  | 0.21                              | 0.21                              | 0.21                              |
| LTE Band 2  | Front at 10mm -       | 0.404            | 0.186            | 0.164            | 0.046            | 0.59                              | 0.57                              | 0.45                              |
|             | Back at 10mm -        | 0.577            | 0.361            | 0.718            | 0.069            | 0.94                              | 1.30                              | 0.65                              |
|             | Left side at 10mm -   | 0.496            |                  |                  |                  | 0.50                              | 0.50                              | 0.50                              |
|             | Right side at 10mm -  | 0.182            | 0.160            | 0.290            | 0.036            | 0.34                              | 0.47                              | 0.22                              |
|             | Top side at 10mm -    | 0.673            | 0.178            | 0.555            | 0.036            | 0.85                              | 1.23                              | 0.71                              |
|             | Bottom side at 10mm - | 0.632            |                  |                  |                  | 0.63                              | 0.63                              | 0.63                              |
| LTE Band 7  | Front at 10mm -       | 0.543            | 0.186            | 0.164            | 0.046            | 0.73                              | 0.71                              | 0.59                              |
|             | Back at 10mm -        | 0.787            | 0.361            | 0.718            | 0.069            | 1.15                              | 1.51                              | 0.86                              |
|             | Left side at 10mm -   | 0.188            |                  |                  |                  | 0.19                              | 0.19                              | 0.19                              |
|             | Right side at 10mm -  | 0.249            | 0.160            | 0.290            | 0.036            | 0.41                              | 0.54                              | 0.29                              |
|             | Top side at 10mm -    | 0.445            | 0.178            | 0.555            | 0.036            | 0.62                              | 1.00                              | 0.48                              |
|             | Bottom side at 10mm - | 1.086            |                  |                  |                  | 1.09                              | 1.09                              | 1.09                              |
| LTE Band 13 | Front at 10mm -       | 0.218            | 0.186            | 0.164            | 0.046            | 0.40                              | 0.38                              | 0.26                              |
|             | Back at 10mm -        | 0.386            | 0.361            | 0.718            | 0.069            | 0.75                              | 1.10                              | 0.46                              |
|             | Left side at 10mm -   | 0.215            |                  |                  |                  | 0.21                              | 0.21                              | 0.21                              |
|             | Right side at 10mm -  | 0.264            | 0.160            | 0.290            | 0.036            | 0.42                              | 0.55                              | 0.30                              |
|             | Top side at 10mm -    | 0.159            | 0.178            | 0.555            | 0.036            | 0.34                              | 0.71                              | 0.20                              |
|             | Bottom side at 10mm - | 0.192            |                  |                  |                  | 0.19                              | 0.19                              | 0.19                              |
| LTE Band 26 | Front at 10mm -       | 0.267            | 0.186            | 0.164            | 0.046            | 0.45                              | 0.43                              | 0.31                              |
|             | Back at 10mm -        | 0.450            | 0.361            | 0.718            | 0.069            | 0.81                              | 1.17                              | 0.52                              |
|             | Left side at 10mm -   | 0.212            |                  |                  |                  | 0.21                              | 0.21                              | 0.21                              |
|             | Right side at 10mm -  | 0.336            | 0.160            | 0.290            | 0.036            | 0.50                              | 0.63                              | 0.37                              |
|             | Top side at 10mm -    | 0.186            | 0.178            | 0.555            | 0.036            | 0.36                              | 0.74                              | 0.22                              |
|             | Bottom side at 10mm - | 0.243            |                  |                  |                  | 0.24                              | 0.24                              | 0.24                              |
| LTE Band 41 | Front at 10mm -       | 0.400            | 0.186            | 0.164            | 0.046            | 0.59                              | 0.56                              | 0.45                              |
|             | Back at 10mm -        | 0.560            | 0.361            | 0.718            | 0.069            | 0.92                              | 1.28                              | 0.63                              |
|             | Left side at 10mm -   | 0.118            |                  |                  |                  | 0.12                              | 0.12                              | 0.12                              |
|             | Right side at 10mm -  | 0.172            | 0.160            | 0.290            | 0.036            | 0.33                              | 0.46                              | 0.21                              |
|             | Top side at 10mm -    | 0.507            | 0.178            | 0.555            | 0.036            | 0.68                              | 1.06                              | 0.54                              |
|             | Bottom side at 10mm - | 0.987            |                  |                  |                  | 0.99                              | 0.99                              | 0.99                              |
| LTE Band 66 | Front at 10mm -       | 0.356            | 0.186            | 0.164            | 0.046            | 0.54                              | 0.52                              | 0.40                              |
|             | Back at 10mm -        | 0.658            | 0.361            | 0.718            | 0.069            | 1.02                              | 1.38                              | 0.73                              |



BUREAU  
VERITAS

## FCC SAR Test Report



Certificate #6613.01

| WWAN Band | Exposure Position     | 1                | 2                | 3                | 4                | 1+2<br>Summed<br>1g SAR<br>(W/kg) | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+4<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|-----------------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|           |                       | WWAN             | 2.4GHz WLAN      | 5GHz WLAN        | Bluetooth        |                                   |                                   |                                   |
|           |                       | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg) |                                   |                                   |                                   |
|           | Left side at 10mm -   | 0.344            |                  |                  |                  | 0.34                              | 0.34                              | 0.34                              |
|           | Right side at 10mm -  | 0.191            | 0.160            | 0.290            | 0.036            | 0.35                              | 0.48                              | 0.23                              |
|           | Top side at 10mm -    | 0.786            | 0.178            | 0.555            | 0.036            | 0.96                              | 1.34                              | 0.82                              |
|           | Bottom side at 10mm - | 0.714            |                  |                  |                  | 0.71                              | 0.71                              | 0.71                              |

## <Extremity Exposure Condition >

| WWAN Band   | Exposure Position    | 1              | 2              | 3              | 4              | 1+2<br>Summed<br>10g SAR (W/kg) | 1+3<br>Summed<br>10g SAR (W/kg) | 1+4<br>Summed<br>10g SAR (W/kg) |
|-------------|----------------------|----------------|----------------|----------------|----------------|---------------------------------|---------------------------------|---------------------------------|
|             |                      | WWAN           | 2.4GHz WLAN    | 5GHz WLAN      | Bluetooth      |                                 |                                 |                                 |
|             |                      | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) |                                 |                                 |                                 |
| GSM1900     | Front at 0mm -       |                |                | 0.342          |                | 0.00                            | 0.34                            | 0.00                            |
|             | Back at 0mm -        |                |                | 0.618          |                | 0.00                            | 0.62                            | 0.00                            |
|             | Right side at 0mm -  |                |                |                |                | 0.00                            | 0.00                            | 0.00                            |
|             | Top side at 0mm -    |                |                | 0.410          |                | 0.00                            | 0.41                            | 0.00                            |
|             | Bottom side at 0mm - |                |                | 1.305          |                | 0.00                            | 1.30                            | 0.00                            |
| WCDMA II    | Front at 0mm -       | 1.989          |                |                |                | 1.99                            | 1.99                            | 1.99                            |
|             | Back at 0mm -        |                |                | 0.342          |                | 0.00                            | 0.34                            | 0.00                            |
|             | Right side at 0mm -  |                |                | 0.618          |                | 0.00                            | 0.62                            | 0.00                            |
|             | Top side at 0mm -    |                |                |                |                | 0.00                            | 0.00                            | 0.00                            |
|             | Bottom side at 0mm - |                |                | 0.410          |                | 0.00                            | 0.41                            | 0.00                            |
| WCDMA IV    | Front at 0mm -       | 1.914          |                | 1.305          |                | 1.91                            | 3.22                            | 1.91                            |
|             | Back at 0mm -        | 1.673          |                |                |                | 1.67                            | 1.67                            | 1.67                            |
|             | Right side at 0mm -  | 1.055          |                | 0.342          |                | 1.05                            | 1.40                            | 1.05                            |
|             | Top side at 0mm -    | 1.303          |                | 0.618          |                | 1.30                            | 1.92                            | 1.30                            |
|             | Bottom side at 0mm - |                |                |                |                | 0.00                            | 0.00                            | 0.00                            |
| LTE Band 2  | Front at 0mm -       |                |                | 0.410          |                | 0.00                            | 0.41                            | 0.00                            |
|             | Back at 0mm -        | 1.417          |                | 1.305          |                | 1.42                            | 2.72                            | 1.42                            |
|             | Right side at 0mm -  | 1.642          |                |                |                | 1.64                            | 1.64                            | 1.64                            |
|             | Top side at 0mm -    |                |                | 0.342          |                | 0.00                            | 0.34                            | 0.00                            |
|             | Bottom side at 0mm - | 1.549          |                | 0.618          |                | 1.55                            | 2.17                            | 1.55                            |
| LTE Band 7  | Front at 0mm -       |                |                |                |                | 0.00                            | 0.00                            | 0.00                            |
|             | Back at 0mm -        |                |                | 0.410          |                | 0.00                            | 0.41                            | 0.00                            |
|             | Right side at 0mm -  | 2.296          |                | 1.305          |                | 2.30                            | 3.60                            | 2.30                            |
|             | Top side at 0mm -    | 1.717          |                |                |                | 1.72                            | 1.72                            | 1.72                            |
|             | Bottom side at 0mm - |                |                | 0.342          |                | 0.00                            | 0.34                            | 0.00                            |
| LTE Band 41 | Front at 0mm -       | 1.851          |                | 0.618          |                | 1.85                            | 2.47                            | 1.85                            |
|             | Back at 0mm -        |                |                |                |                | 0.00                            | 0.00                            | 0.00                            |
|             | Right side at 0mm -  |                |                | 0.410          |                | 0.00                            | 0.41                            | 0.00                            |
|             | Top side at 0mm -    |                |                | 1.305          |                | 0.00                            | 1.30                            | 0.00                            |
|             | Bottom side at 0mm - | 2.155          |                |                |                | 2.16                            | 2.16                            | 2.16                            |
| LTE Band 66 | Front at 0mm -       |                |                | 0.342          |                | 0.00                            | 0.34                            | 0.00                            |
|             | Back at 0mm -        |                |                | 0.618          |                | 0.00                            | 0.62                            | 0.00                            |
|             | Right side at 0mm -  |                |                |                |                | 0.00                            | 0.00                            | 0.00                            |
|             | Top side at 0mm -    |                |                | 0.410          |                | 0.00                            | 0.41                            | 0.00                            |
|             | Bottom side at 0mm - |                |                | 1.305          |                | 0.00                            | 1.30                            | 0.00                            |

**Note:**

1. The SAR summation of maximum SAR of WWAN and WLAN/BT for each position is under the SAR limitation (Head & Body: SAR<sub>1g</sub> 1.6 W/kg, Extremity: SAR<sub>10g</sub> 4.0 W/kg). Therefore, the simultaneous transmission condition is compliance with the SAR criterion.

**Test Engineer :** Zixiao Xia, and Renjie Liu

## 5. Calibration of Test Equipment

| Equipment                    | Manufacturer  | Model          | SN            | Cal. Date     | Cal. Interval |
|------------------------------|---------------|----------------|---------------|---------------|---------------|
| System Validation Dipole     | SPEAG         | D750V3         | 1200          | Oct. 27, 2021 | 3 Years       |
| System Validation Dipole     | SPEAG         | D835V2         | 4d265         | Oct. 18, 2021 | 3 Years       |
| System Validation Dipole     | SPEAG         | D1750V2        | 1176          | Oct. 19, 2021 | 3 Years       |
| System Validation Dipole     | SPEAG         | D1950V3        | 1229          | Oct. 28, 2021 | 3 Years       |
| System Validation Dipole     | SPEAG         | D2450V2        | 1048          | Oct. 21, 2021 | 3 Years       |
| System Validation Dipole     | SPEAG         | D2600V2        | 1110          | Sep. 16, 2021 | 3 Years       |
| System Validation Dipole     | SPEAG         | D5GHzV2        | 1315          | Oct. 22, 2021 | 3 Years       |
| Data Acquisition Electronics | SPEAG         | DAE4           | 1633          | Feb. 08, 2023 | 1 Year        |
| Dosimetric E-Field Probe     | SPEAG         | EX3DV4         | 7612          | Feb. 28, 2023 | 1 Year        |
| Radio Communication Analyzer | ANRITSU       | MT8821C        | 6272458679    | Aug. 26, 2022 | 2 Years       |
| Vector Network Analyzer      | SPEAG         | VNA R140       | 0121219       | Feb. 17, 2023 | 1 Year        |
| dielectric parameter probes  | SPEAG         | DAK-3.5        | 1119          | Feb. 20, 2023 | 1 Year        |
| Power Meter                  | Rohde&Schwarz | NRX            | 102380        | Feb. 15, 2022 | 2 Years       |
| Power Sensor                 | Rohde&Schwarz | NRP6A          | 102942        | Feb. 15, 2022 | 2 Years       |
| Power Sensor                 | Rohde&Schwarz | NRP6A          | 102943        | Feb. 15, 2022 | 2 Years       |
| ESG Analog Signal Generator  | Rohde&Schwarz | SMB100A03      | 182185        | Feb. 16, 2022 | 2 Years       |
| Coupler                      | Woken         | 0110A056020-10 | COM27RW1A3    | May. 10, 2023 | 1 Year        |
| Temp.&Humi.Recorder          | DeLi          | 8813           | SZ-SAR2020009 | Sep. 06, 2022 | 2 Years       |

### Note:

- Referring to KDB 865664 D01 v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipole are also not physically damaged, or repaired during the interval. The dipole justification can be found in appendix C.  
The return loss is  $< -20\text{dB}$ , within 20% of prior calibration, the impedance is with 5ohm of prior calibration.

## 6. Measurement Uncertainty

| DASY6 Uncertainty Budget<br>According to IEEE 1528-2013 and IEC 62209-1/2016<br>(0.3 - 3 GHz range) |                        |             |         |         |          |                                |                                 |           |
|-----------------------------------------------------------------------------------------------------|------------------------|-------------|---------|---------|----------|--------------------------------|---------------------------------|-----------|
| Error Description                                                                                   | Uncertainty Value (±%) | Probability | Divisor | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) | (Vi) Veff |
| <b>Measurement System</b>                                                                           |                        |             |         |         |          |                                |                                 |           |
| Probe Calibration                                                                                   | 6.05                   | N           | 1       | 1       | 1        | 6.1                            | 6.1                             | ∞         |
| Axial Isotropy                                                                                      | 4.7                    | R           | 1.732   | 0.7     | 0.7      | 1.9                            | 1.9                             | ∞         |
| Hemispherical Isotropy                                                                              | 9.6                    | R           | 1.732   | 0.7     | 0.7      | 3.9                            | 3.9                             | ∞         |
| Boundary Effects                                                                                    | 2.0                    | R           | 1.732   | 1       | 1        | 1.2                            | 1.2                             | ∞         |
| Linearity                                                                                           | 4.7                    | R           | 1.732   | 1       | 1        | 2.7                            | 2.7                             | ∞         |
| System Detection Limits                                                                             | 1.0                    | R           | 1.732   | 1       | 1        | 0.6                            | 0.6                             | ∞         |
| Modulation Response                                                                                 | 3.2                    | R           | 1.732   | 1       | 1        | 1.8                            | 1.8                             | ∞         |
| Readout Electronics                                                                                 | 0.3                    | N           | 1       | 1       | 1        | 0.3                            | 0.3                             | ∞         |
| Response Time                                                                                       | 0.0                    | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             | ∞         |
| Integration Time                                                                                    | 2.6                    | R           | 1.732   | 1       | 1        | 1.5                            | 1.5                             | ∞         |
| RF Ambient Noise                                                                                    | 3.0                    | R           | 1.732   | 1       | 1        | 1.7                            | 1.7                             | ∞         |
| RF Ambient Reflections                                                                              | 3.0                    | R           | 1.732   | 1       | 1        | 1.7                            | 1.7                             | ∞         |
| Probe Positioner                                                                                    | 0.4                    | R           | 1.732   | 1       | 1        | 0.2                            | 0.2                             | ∞         |
| Probe Positioning                                                                                   | 6.7                    | R           | 1.732   | 1       | 1        | 3.9                            | 3.9                             | ∞         |
| Max. SAR Eval.                                                                                      | 4.0                    | R           | 1.732   | 1       | 1        | 2.3                            | 2.3                             | ∞         |
| <b>Test Sample Related</b>                                                                          |                        |             |         |         |          |                                |                                 |           |
| Device Positioning                                                                                  | 4.0                    | N           | 1       | 1       | 1        | 4.0                            | 4.0                             | 35        |
| Device Holder                                                                                       | 4.9                    | N           | 1       | 1       | 1        | 4.9                            | 4.9                             | 12        |
| Power Drift                                                                                         | 5.0                    | R           | 1.732   | 1       | 1        | 2.9                            | 2.9                             | ∞         |
| Power Scaling                                                                                       | 0.0                    | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             | ∞         |
| <b>Phantom and Setup</b>                                                                            |                        |             |         |         |          |                                |                                 |           |
| Phantom Uncertainty                                                                                 | 6.6                    | R           | 1.732   | 1       | 1        | 3.8                            | 3.8                             | ∞         |
| SAR correction                                                                                      | 0.0                    | R           | 1.732   | 1       | 0.84     | 0.0                            | 0.0                             | ∞         |
| Liquid Conductivity Repeatability                                                                   | 0.14                   | N           | 1       | 0.78    | 0.71     | 0.1                            | 0.1                             | 5         |
| Liquid Conductivity (target)                                                                        | 10.0                   | R           | 1.732   | 0.78    | 0.71     | 4.5                            | 4.1                             | ∞         |
| Liquid Conductivity (mea.)                                                                          | 2.5                    | R           | 1.732   | 0.78    | 0.71     | 1.1                            | 1.0                             | ∞         |
| Temp. unc. - Conductivity                                                                           | 2.61                   | R           | 1.732   | 0.78    | 0.71     | 1.2                            | 1.1                             | ∞         |
| Liquid Permittivity Repeatability                                                                   | 0.03                   | N           | 1       | 0.23    | 0.26     | 0.0                            | 0.0                             | 5         |
| Liquid Permittivity (target)                                                                        | 10.0                   | R           | 1.732   | 0.23    | 0.26     | 1.3                            | 1.5                             | ∞         |
| Liquid Permittivity (mea.)                                                                          | 2.5                    | R           | 1.732   | 0.23    | 0.26     | 0.3                            | 0.4                             | ∞         |
| Temp. unc. - Permittivity                                                                           | 1.78                   | R           | 1.732   | 0.23    | 0.26     | 0.2                            | 0.3                             | ∞         |
| <b>Combined Std. Uncertainty</b>                                                                    |                        |             |         |         |          | 13.6%                          | 13.5%                           | 578       |
| <b>Coverage Factor for 95 %</b>                                                                     |                        |             |         |         |          | K=2                            | K=2                             |           |
| <b>Expanded STD Uncertainty</b>                                                                     |                        |             |         |         |          | 27.2%                          | 26.9%                           |           |

Uncertainty budget for frequency range 300 MHz to 3 GHz

| DASY6 Uncertainty Budget<br>According to IEC 62209-2/2010<br>(30 MHz - 6 GHz range) |                        |             |         |         |          |                                |                                 |           |
|-------------------------------------------------------------------------------------|------------------------|-------------|---------|---------|----------|--------------------------------|---------------------------------|-----------|
| Error Description                                                                   | Uncertainty Value (±%) | Probability | Divisor | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) | (Vi) Veff |
| <b>Measurement System</b>                                                           |                        |             |         |         |          |                                |                                 |           |
| Probe Calibration                                                                   | 6.65                   | N           | 1       | 1       | 1        | 6.7                            | 6.7                             | ∞         |
| Axial Isotropy                                                                      | 4.7                    | R           | 1.732   | 0.7     | 0.7      | 1.9                            | 1.9                             | ∞         |
| Hemispherical Isotropy                                                              | 9.6                    | R           | 1.732   | 0.7     | 0.7      | 3.9                            | 3.9                             | ∞         |
| Boundary Effects                                                                    | 2.0                    | R           | 1.732   | 1       | 1        | 1.2                            | 1.2                             | ∞         |
| Linearity                                                                           | 4.7                    | R           | 1.732   | 1       | 1        | 2.7                            | 2.7                             | ∞         |
| System Detection Limits                                                             | 1.0                    | R           | 1.732   | 1       | 1        | 0.6                            | 0.6                             | ∞         |
| Modulation Response                                                                 | 3.2                    | R           | 1.732   | 1       | 1        | 1.8                            | 1.8                             | ∞         |
| Readout Electronics                                                                 | 0.3                    | N           | 1       | 1       | 1        | 0.3                            | 0.3                             | ∞         |
| Response Time                                                                       | 0.0                    | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             | ∞         |
| Integration Time                                                                    | 2.6                    | R           | 1.732   | 1       | 1        | 1.5                            | 1.5                             | ∞         |
| RF Ambient Noise                                                                    | 3.0                    | R           | 1.732   | 1       | 1        | 1.7                            | 1.7                             | ∞         |
| RF Ambient Reflections                                                              | 3.0                    | R           | 1.732   | 1       | 1        | 1.7                            | 1.7                             | ∞         |
| Probe Positioner                                                                    | 0.4                    | R           | 1.732   | 1       | 1        | 0.2                            | 0.2                             | ∞         |
| Probe Positioning                                                                   | 6.7                    | R           | 1.732   | 1       | 1        | 3.9                            | 3.9                             | ∞         |
| Max. SAR Eval.                                                                      | 4.0                    | R           | 1.732   | 1       | 1        | 2.3                            | 2.3                             | ∞         |
| <b>Test Sample Related</b>                                                          |                        |             |         |         |          |                                |                                 |           |
| Device Positioning                                                                  | 4.3                    | N           | 1       | 1       | 1        | 4.3                            | 4.3                             | 35        |
| Device Holder                                                                       | 4.9                    | N           | 1       | 1       | 1        | 4.9                            | 4.9                             | 12        |
| Power Drift                                                                         | 5.0                    | R           | 1.732   | 1       | 1        | 2.9                            | 2.9                             | ∞         |
| Power Scaling                                                                       | 0.0                    | R           | 1.732   | 1       | 1        | 0.0                            | 0.0                             | ∞         |
| <b>Phantom and Setup</b>                                                            |                        |             |         |         |          |                                |                                 |           |
| Phantom Uncertainty                                                                 | 6.6                    | R           | 1.732   | 1       | 1        | 3.8                            | 3.8                             | ∞         |
| SAR correction                                                                      | 0.0                    | R           | 1.732   | 1       | 0.84     | 0.0                            | 0.0                             | ∞         |
| Liquid Conductivity Repeatability                                                   | 0.16                   | N           | 1       | 0.78    | 0.71     | 0.1                            | 0.1                             | 5         |
| Liquid Conductivity (target)                                                        | 10.0                   | R           | 1.732   | 0.78    | 0.71     | 4.5                            | 4.1                             | ∞         |
| Liquid Conductivity (mea.)                                                          | 2.5                    | R           | 1.732   | 0.78    | 0.71     | 1.1                            | 1.0                             | ∞         |
| Temp. unc. - Conductivity                                                           | 3.64                   | R           | 1.732   | 0.78    | 0.71     | 1.6                            | 1.5                             | ∞         |
| Liquid Permittivity Repeatability                                                   | 0.08                   | N           | 1       | 0.23    | 0.26     | 0.0                            | 0.0                             | 5         |
| Liquid Permittivity (target)                                                        | 10.0                   | R           | 1.732   | 0.23    | 0.26     | 1.3                            | 1.5                             | ∞         |
| Liquid Permittivity (mea.)                                                          | 2.5                    | R           | 1.732   | 0.23    | 0.26     | 0.3                            | 0.4                             | ∞         |
| Temp. unc. - Permittivity                                                           | 1.78                   | R           | 1.732   | 0.23    | 0.26     | 0.2                            | 0.3                             | ∞         |
| <b>Combined Std. Uncertainty</b>                                                    |                        |             |         |         |          | 14.0%                          | 13.9%                           | 624       |
| <b>Coverage Factor for 95 %</b>                                                     |                        |             |         |         |          | K=2                            | K=2                             |           |
| <b>Expanded STD Uncertainty</b>                                                     |                        |             |         |         |          | 28.0%                          | 27.7%                           |           |

Uncertainty budget for frequency range 30 MHz to 6 GHz

## 7. Information on the Testing Laboratories

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation.

If you have any comments, please feel free to contact us at the following:

Add: Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

[Tel: +86 \(0557\) 368 1008](tel:+86(0557)3681008)

The road map of all our labs can be found in our web site also

[Web: http://www.7Layers.com](http://www.7Layers.com)

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## Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

**System Check\_HSL750\_20230824****DUT: Dipole:750 MHz;Type:D750V3**

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750\_0824 Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.911 \text{ S/m}$ ;  $\epsilon_r = 40.638$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.4^\circ\text{C}$ ; Liquid Temperature :  $22.7^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(11.35, 11.35, 11.35) @ 750 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (71x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $2.56 \text{ W/kg}$

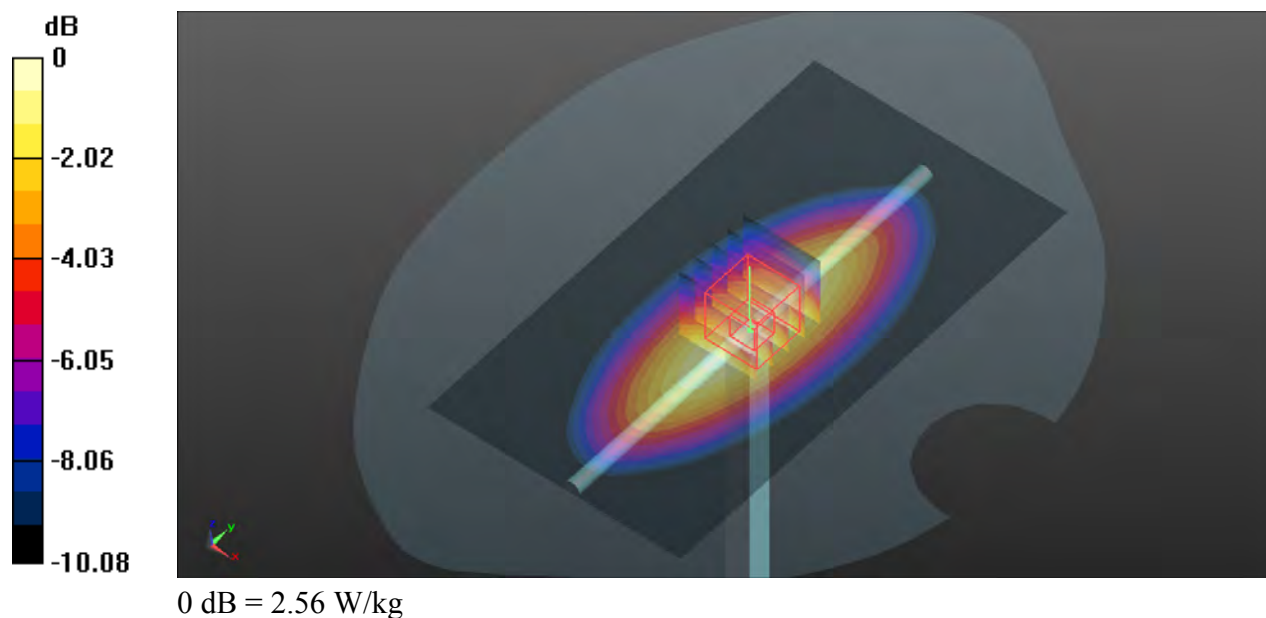
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $50.19 \text{ V/m}$ ; Power Drift =  $-0.11 \text{ dB}$

Peak SAR (extrapolated) =  $2.99 \text{ W/kg}$

**SAR(1 g) =  $2.04 \text{ W/kg}$ ; SAR(10 g) =  $1.37 \text{ W/kg}$**

Maximum value of SAR (measured) =  $2.56 \text{ W/kg}$



**System Check\_HSL835\_20230825****DUT: Dipole:835 MHz;Type:D835V2**

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium: HSL835\_0825 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.931 \text{ S/m}$ ;  $\epsilon_r = 42.965$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.3^\circ\text{C}$ ; Liquid Temperature :  $22.6^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 835 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $3.13 \text{ W/kg}$

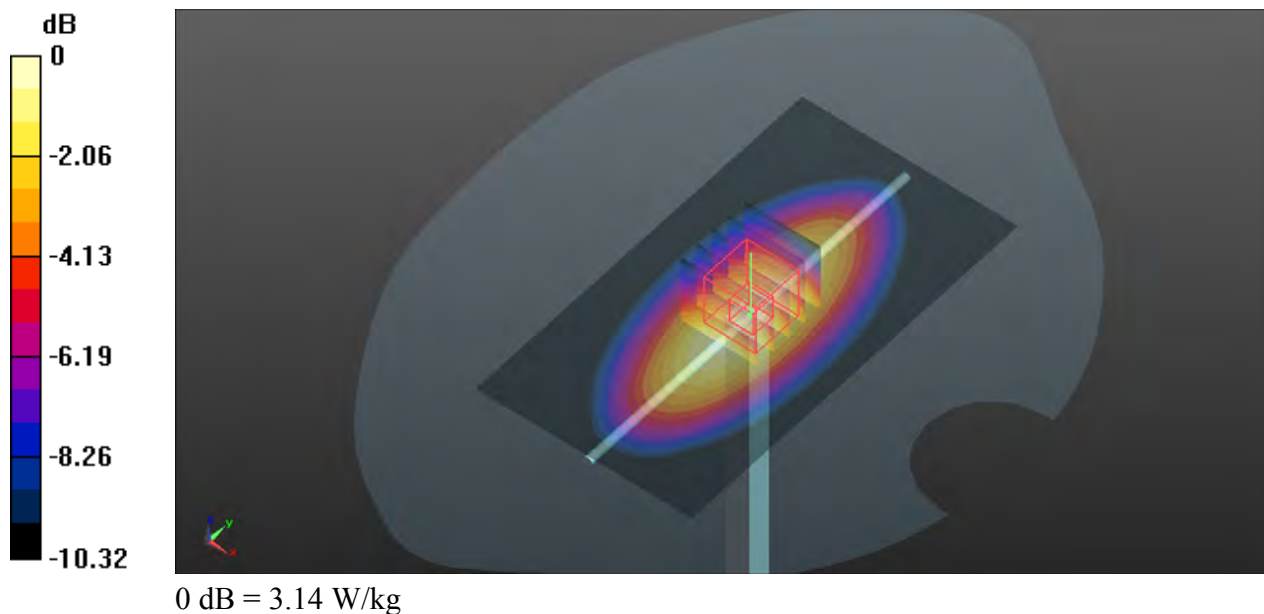
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $59.62 \text{ V/m}$ ; Power Drift =  $0.04 \text{ dB}$

Peak SAR (extrapolated) =  $3.67 \text{ W/kg}$

**SAR(1 g) =  $2.45 \text{ W/kg}$ ; SAR(10 g) =  $1.65 \text{ W/kg}$**

Maximum value of SAR (measured) =  $3.14 \text{ W/kg}$



**System Check\_HSL835\_20230826****DUT: Dipole:835 MHz;Type:D835V2**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835\_0826 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.936 \text{ S/m}$ ;  $\epsilon_r = 43.156$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.3^\circ\text{C}$ ; Liquid Temperature :  $22.4^\circ\text{C}$

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 835 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $3.14 \text{ W/kg}$

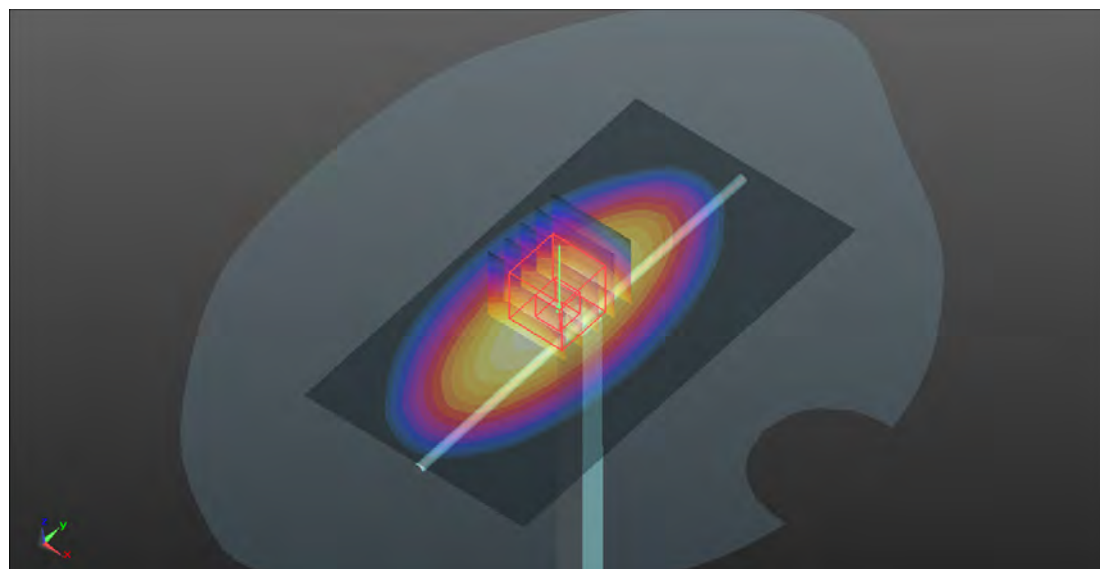
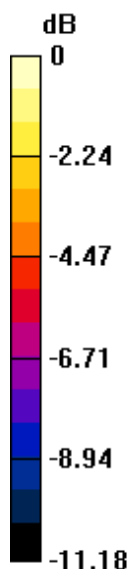
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $56.40 \text{ V/m}$ ; Power Drift =  $-0.03 \text{ dB}$

Peak SAR (extrapolated) =  $3.75 \text{ W/kg}$

**SAR(1 g) =  $2.47 \text{ W/kg}$ ; SAR(10 g) =  $1.6 \text{ W/kg}$**

Maximum value of SAR (measured) =  $3.16 \text{ W/kg}$



0 dB =  $3.16 \text{ W/kg}$

**System Check\_HSL1750\_20230827****DUT: Dipole:1750 MHz;Type:D1750V2**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0827 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.425$  S/m;  $\epsilon_r = 40.971$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1750 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.3 W/kg

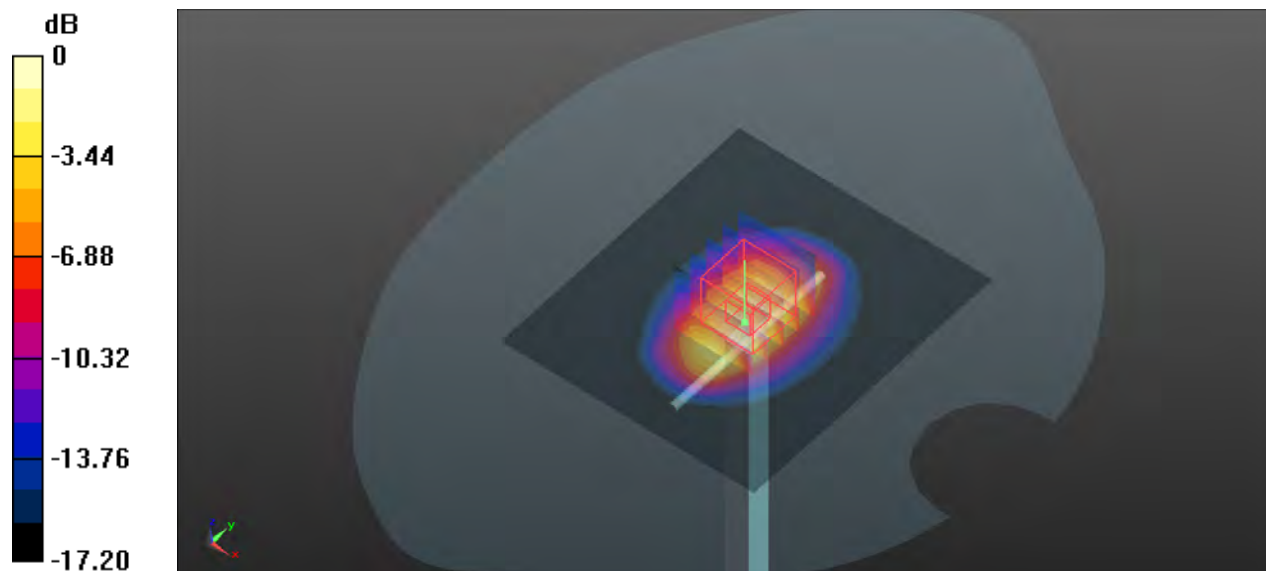
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.99 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 15.9 W/kg

**SAR(1 g) = 8.88 W/kg; SAR(10 g) = 4.77 W/kg**

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg

**System Check\_HSL1750\_20230828****DUT: Dipole:1750 MHz;Type:D1750V2**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0828 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.425$  S/m;  $\epsilon_r = 40.975$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1750 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.6 W/kg

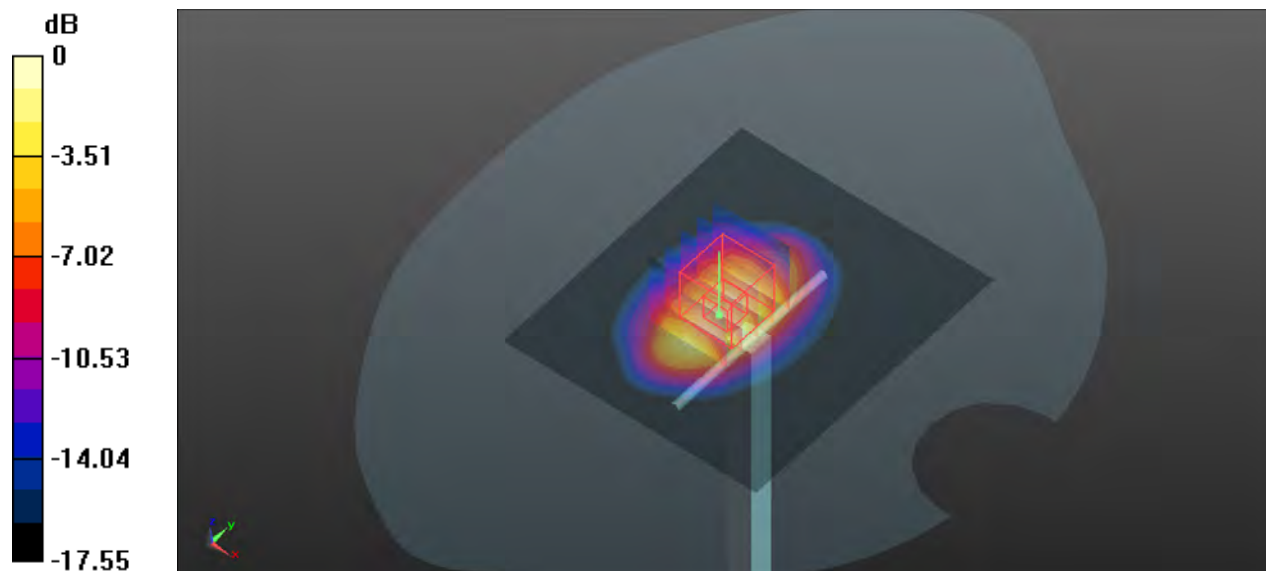
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 90.88 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 15.5 W/kg

**SAR(1 g) = 8.62 W/kg; SAR(10 g) = 4.51 W/kg**

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

**System Check\_HSL1950\_20230829****DUT: Dipole:1950MHz;Type:D1950V3**

Communication System: CW; Frequency: 1950 MHz; Duty Cycle: 1:1

Medium: HSL1950\_0829 Medium parameters used:  $f = 1950$  MHz;  $\sigma = 1.409$  S/m;  $\epsilon_r = 40.211$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1900 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.0 W/kg

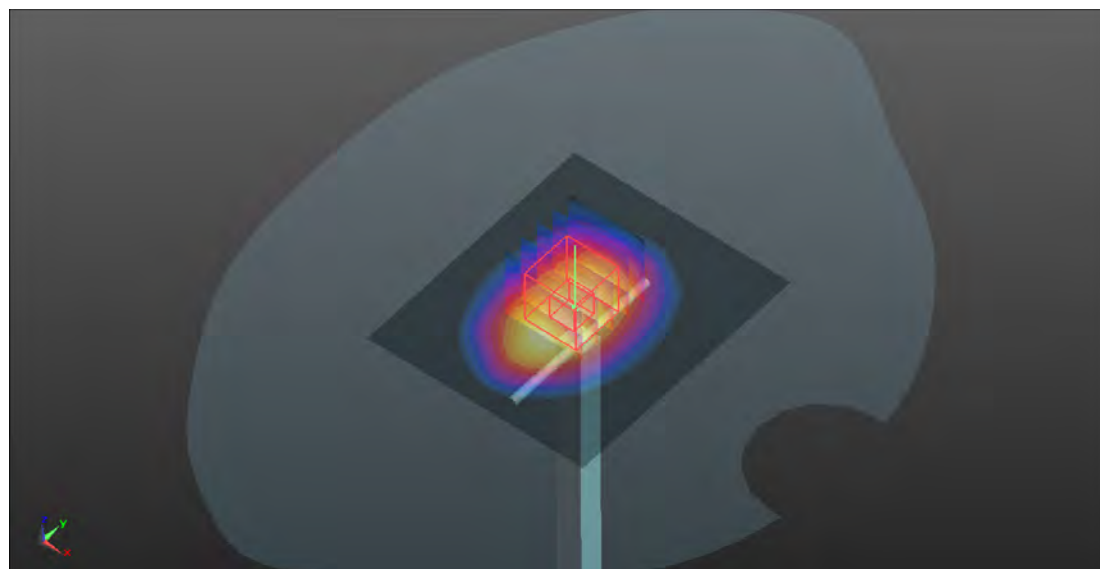
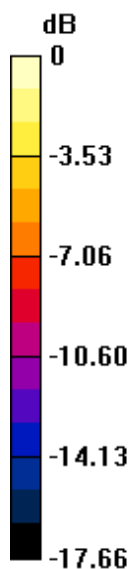
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 97.39 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 16.6 W/kg

**SAR(1 g) = 9.33 W/kg; SAR(10 g) = 4.83 W/kg**

Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg

**System Check\_HSL1950\_20230830****DUT: Dipole:1950MHz;Type:D1950V3**

Communication System: CW; Frequency: 1950 MHz; Duty Cycle: 1:1

Medium: HSL1950\_0830 Medium parameters used:  $f = 1950$  MHz;  $\sigma = 1.409$  S/m;  $\epsilon_r = 40.217$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1900 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.1 W/kg

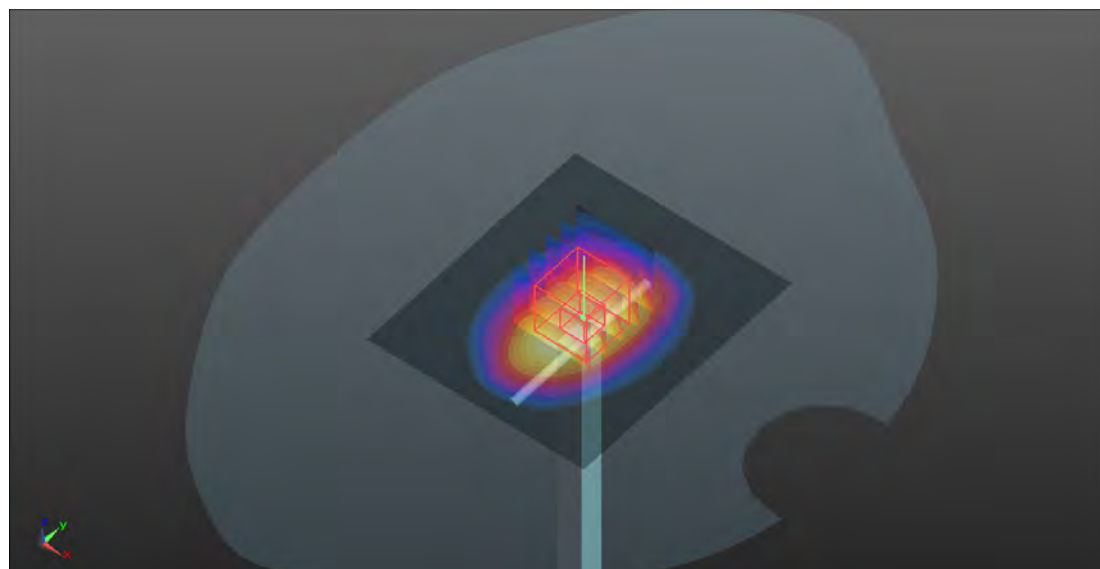
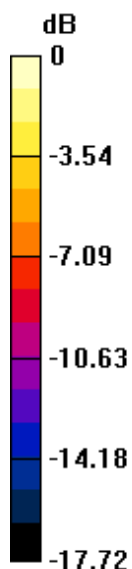
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.15 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 17.1 W/kg

**SAR(1 g) = 9.43 W/kg; SAR(10 g) = 4.95 W/kg**

Maximum value of SAR (measured) = 13.3 W/kg



0 dB = 13.3 W/kg

**System Check\_HSL2450\_20230824****DUT: Dipole:2450 MHz;Type:D2450V2**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450\_0824 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.808$  S/m;  $\epsilon_r = 39.342$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2450 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.5 W/kg

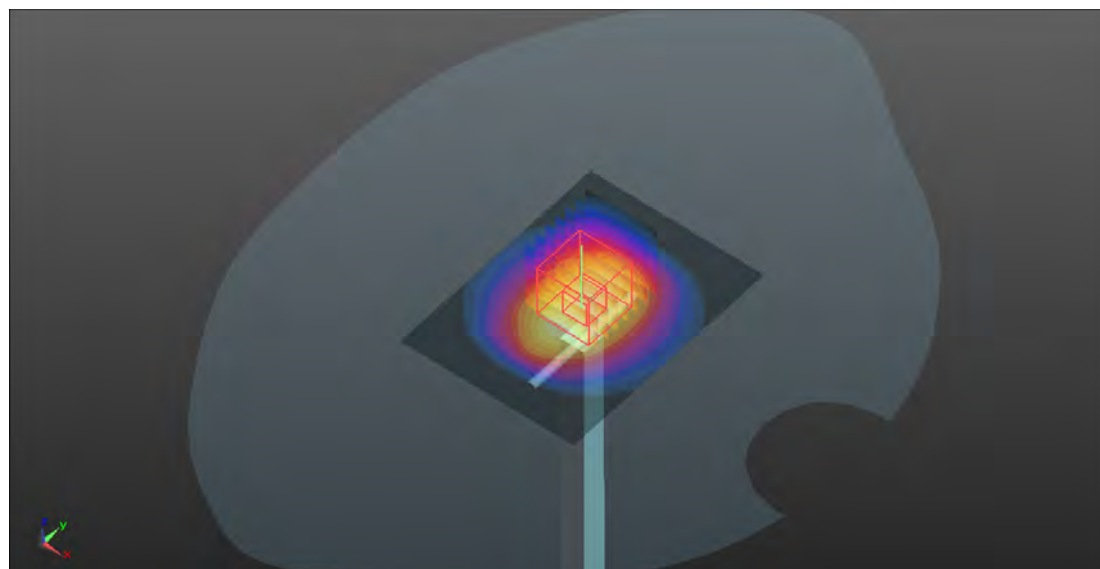
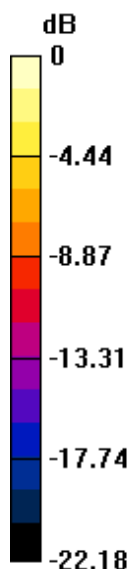
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 115.7 V/m; Power Drift = -0.32 dB

Peak SAR (extrapolated) = 24.7 W/kg

**SAR(1 g) = 12.55 W/kg; SAR(10 g) = 5.94 W/kg**

Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg

**System Check\_HSL2600\_20230831****DUT: Dipole:2600 MHz;Type:D2600V2**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600\_0831 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.922$  S/m;  $\epsilon_r = 39.124$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2600 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (71x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.3 W/kg

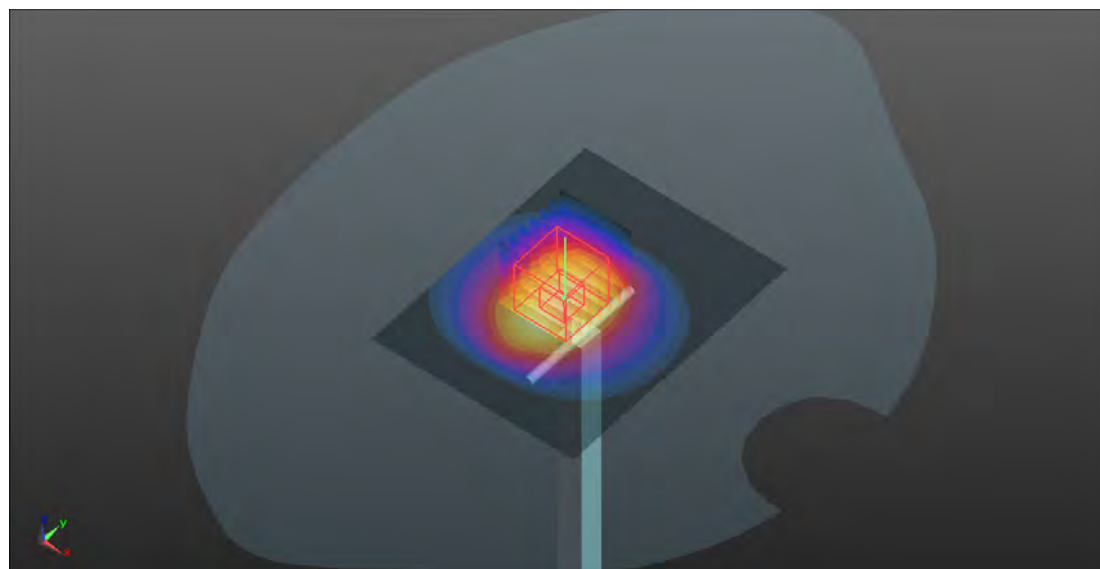
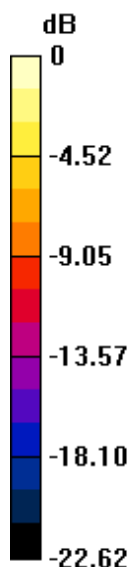
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.25 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 26.0 W/kg

**SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.91 W/kg**

Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.2 W/kg

**System Check\_HSL2600\_20230901****DUT: Dipole:2600 MHz;Type:D2600V2**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600\_0901 Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.921$  S/m;  $\epsilon_r = 39.063$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2600 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=250mW/Area Scan (71x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.8 W/kg

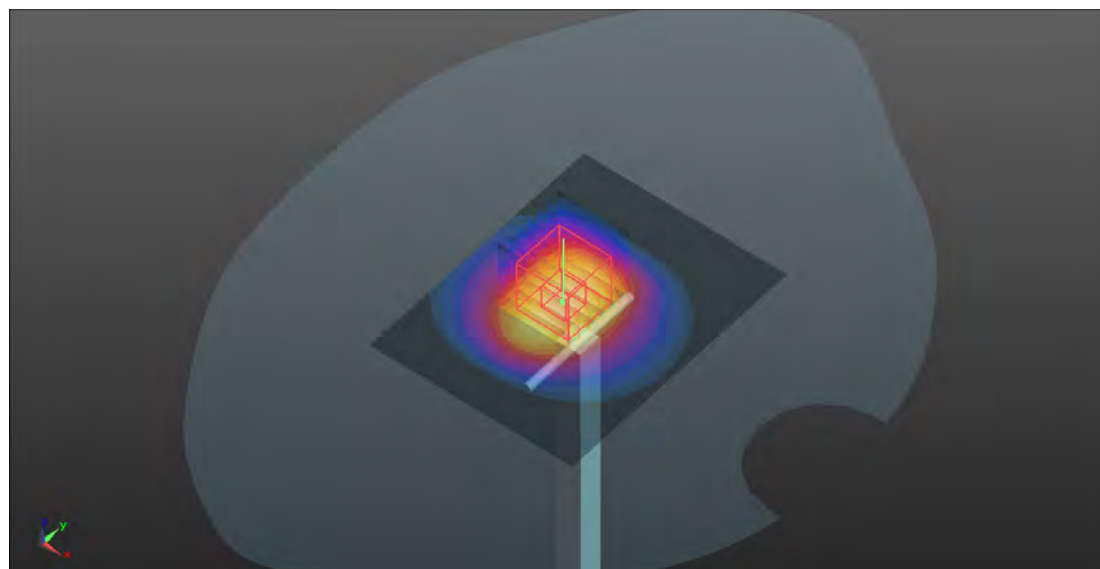
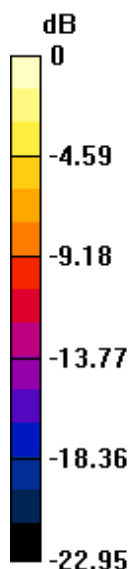
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.76 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 25.0 W/kg

**SAR(1 g) = 13 W/kg; SAR(10 g) = 5.85 W/kg**

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg

**System Check\_HSL5250\_20230827****DUT: Dipole 5GHzV2;Type:D5GHzV2**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G\_0827 Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.628$  S/m;  $\epsilon_r = 36.245$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.7, 5.7, 5.7) @ 5250 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=100mW/Area Scan (81x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 15.8 W/kg

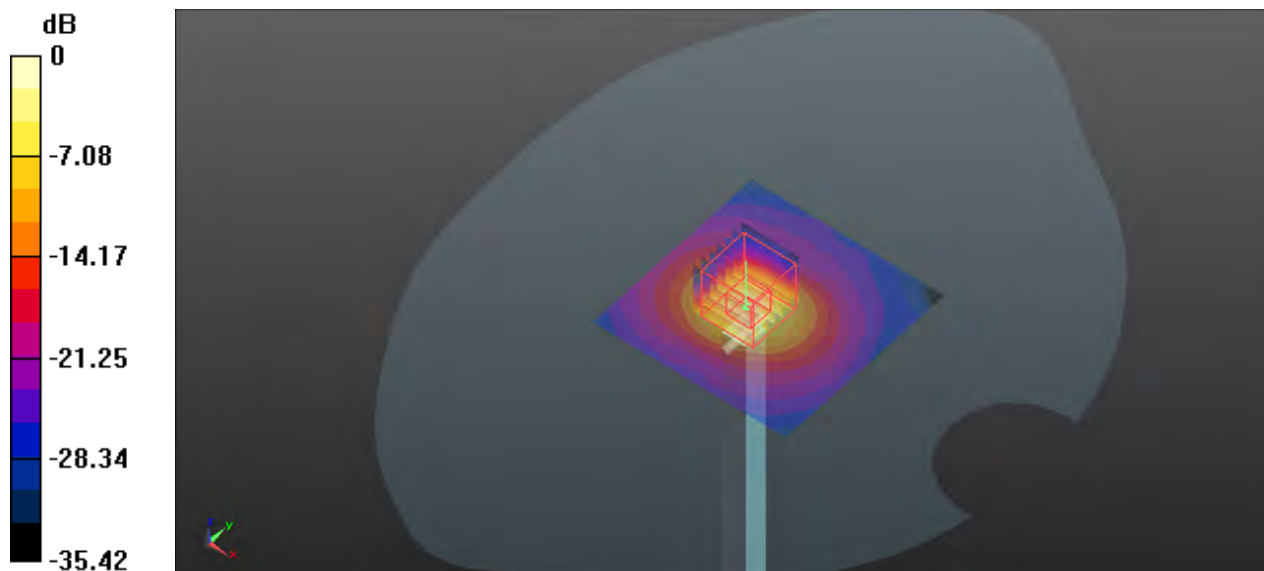
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 50.19 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 32.7 W/kg

**SAR(1 g) = 8.2 W/kg; SAR(10 g) = 2.28 W/kg**

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg

**System Check\_HSL5600\_20230825****DUT: Dipole 5GHzV2;Type:D5GHzV2**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G\_0825 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.018$  S/m;  $\epsilon_r = 35.687$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.1, 5.1, 5.1) @ 5600 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=100mW/Area Scan (91x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.1 W/kg

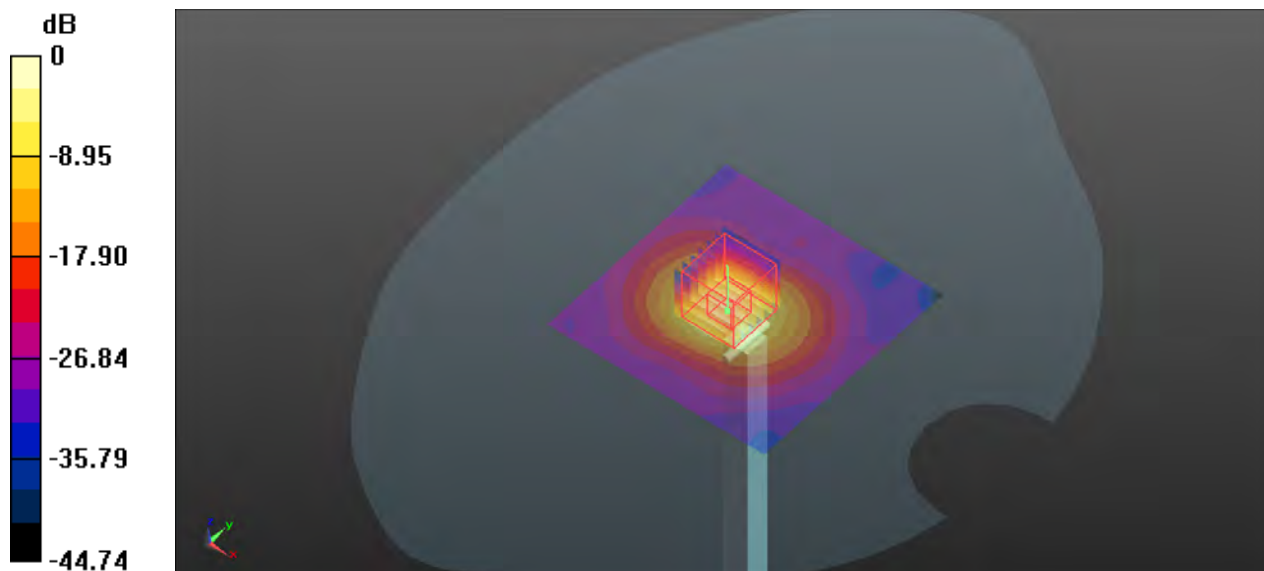
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.25 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 36.8 W/kg

**SAR(1 g) = 8.62 W/kg; SAR(10 g) = 2.33 W/kg**

Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg

**System Check\_HSL5750\_20230826****DUT: Dipole 5GHzV2;Type:D5GHzV2**

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL5G\_0826 Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.181$  S/m;  $\epsilon_r = 35.279$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.21, 5.21, 5.21) @ 5800 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Pin=100mW/Area Scan (71x71x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

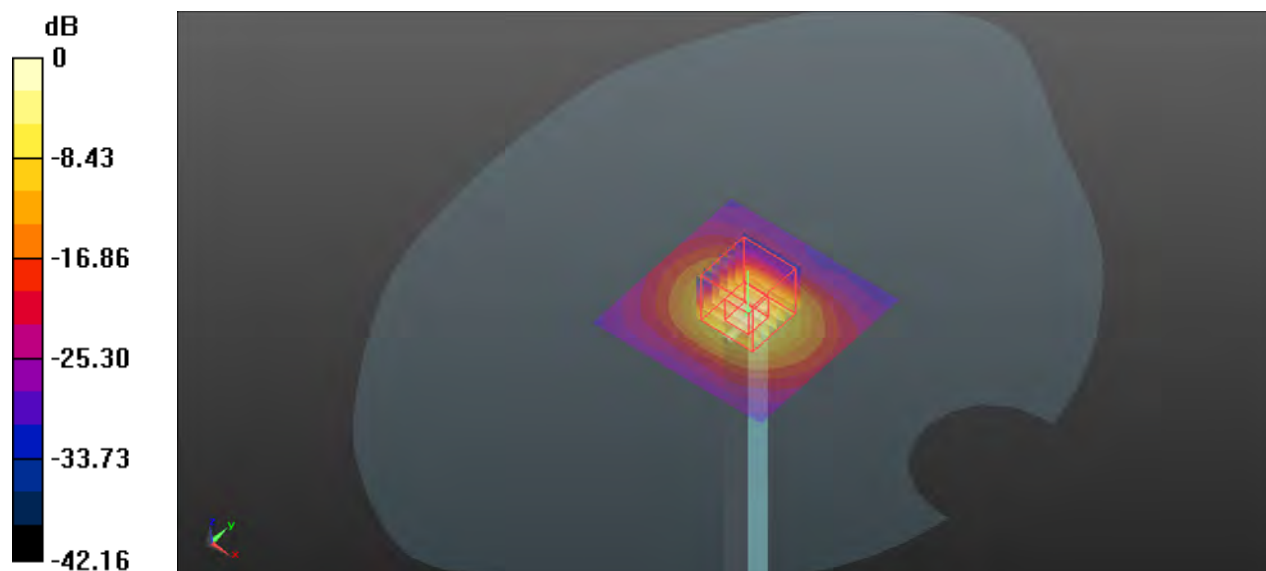
**Pin=100mW/Zoom Scan (7x7x11)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.45 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 33.9 W/kg

**SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.21 W/kg**

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg

## Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

**P01 GSM850\_GPRS 4Tx Slot\_Right Cheek\_Ch189\_Ant2**

Communication System: GPRS 4Tx-slot; Frequency: 836.4 MHz; Duty Cycle: 1:2.08

Medium: HSL835\_0825 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.937$  S/m;  $\epsilon_r = 43.144$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 836.4 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

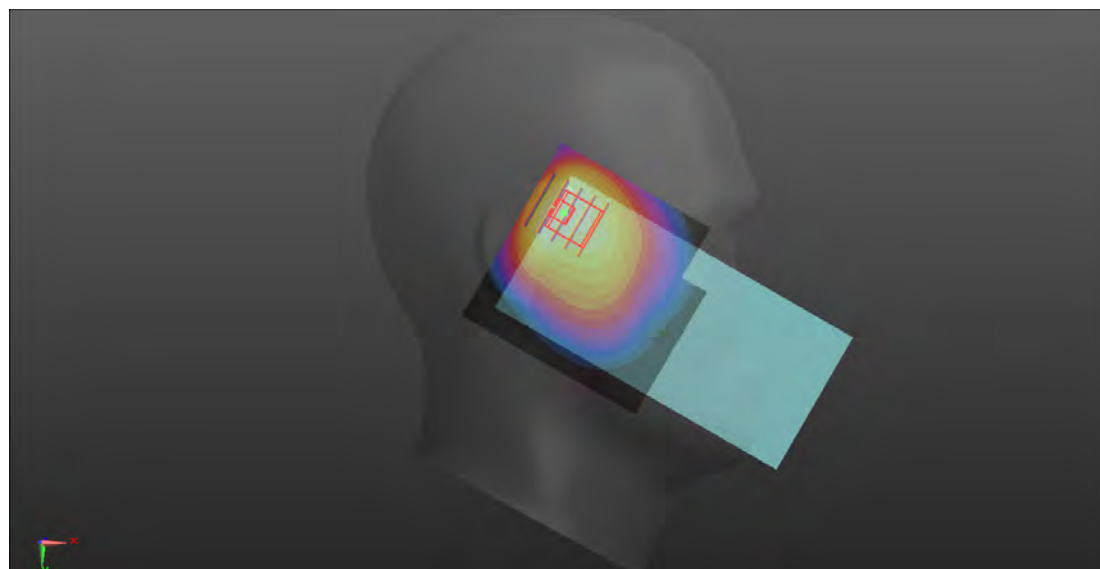
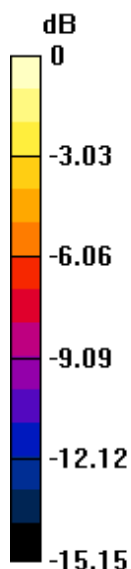
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.01 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.895 W/kg; SAR(10 g) = 0.584 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg

**P02 GSM1900\_GPRS 4Tx Slot\_Right Tilted\_Ch661\_Ant2**

Communication System: GPRS 4Tx-slot; Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium: HSL1900\_0829 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.397$  S/m;  $\epsilon_r = 40.233$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1880 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.895 W/kg

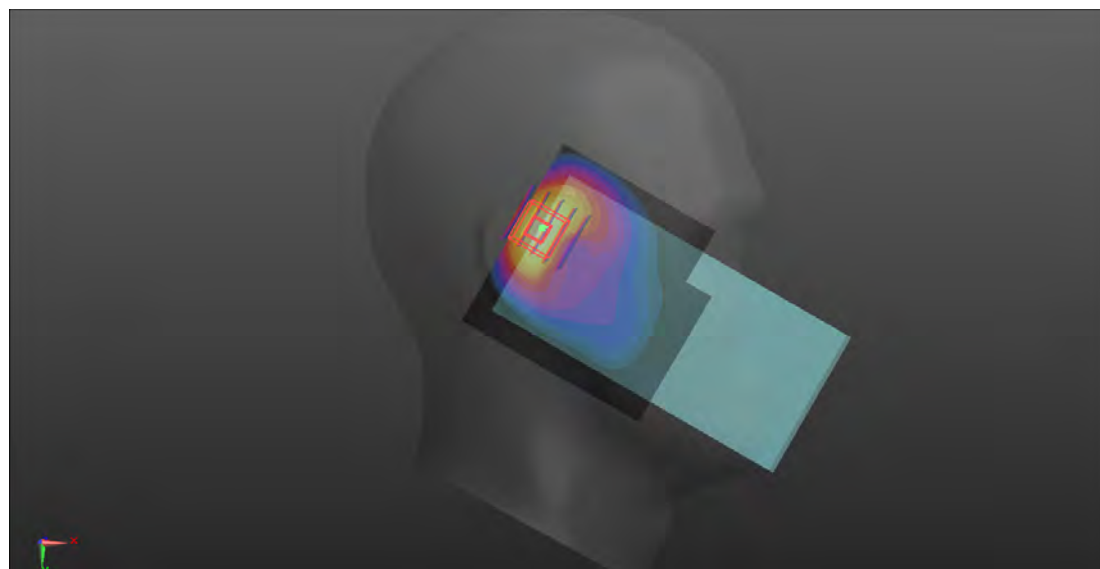
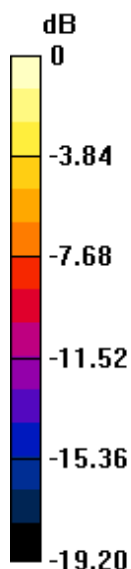
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.96 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.311 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg

**P03 WCDMA II\_RMC12.2K\_Right Tilted\_Ch9400\_Ant2**

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0829 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.397$  S/m;  $\epsilon_r = 40.233$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1880 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.638 W/kg

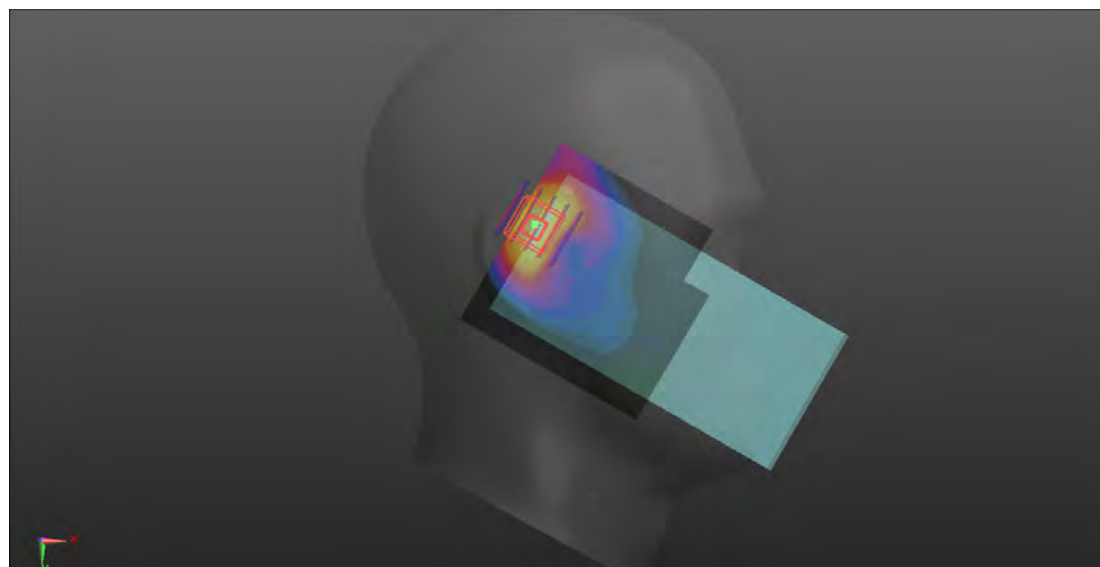
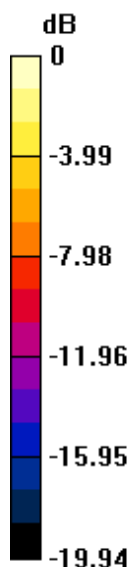
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.91 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.239 W/kg**

Maximum value of SAR (measured) = 0.808 W/kg



0 dB = 0.808 W/kg

**P04 WCDMA IV\_RMC12.2K\_Right Tilted\_Ch1413\_Ant2**

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0827 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 40.994$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1732.6 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

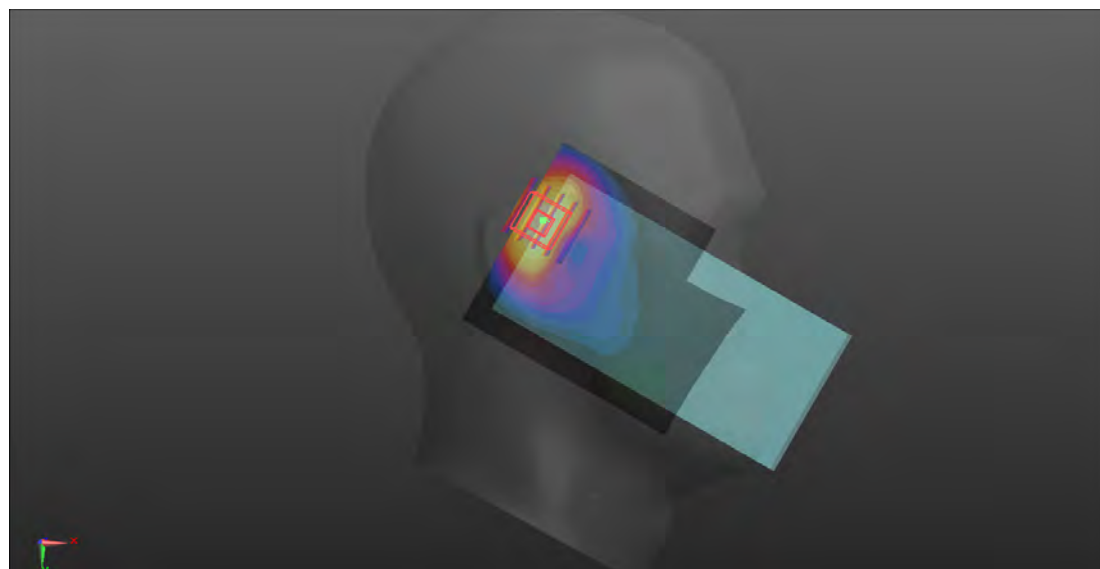
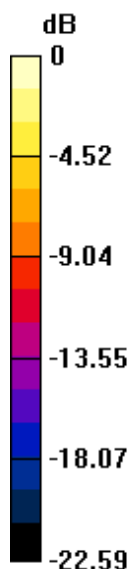
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.59 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.376 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg

**P05 WCDMA V\_RMC12.2K\_Right Cheek\_Ch4233\_Ant2**

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL835\_0825 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.941$  S/m;  $\epsilon_r = 43.097$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 846.6 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

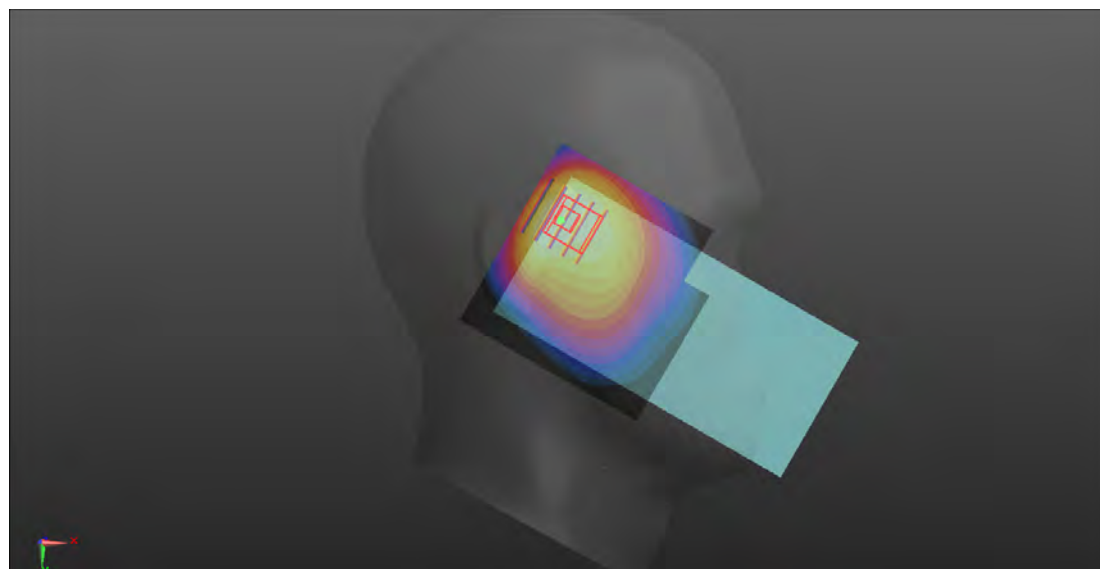
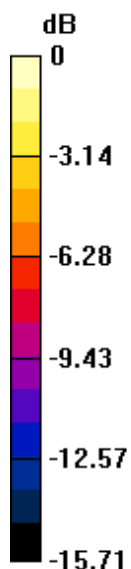
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.99 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.48 W/kg

**SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.508 W/kg**

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

**P06 LTE 2\_QPSK20M\_Right Tilted\_Ch19100\_50RB\_OS0\_Ant2**

Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0830 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.409$  S/m;  $\epsilon_r = 40.211$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1900 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.740 W/kg

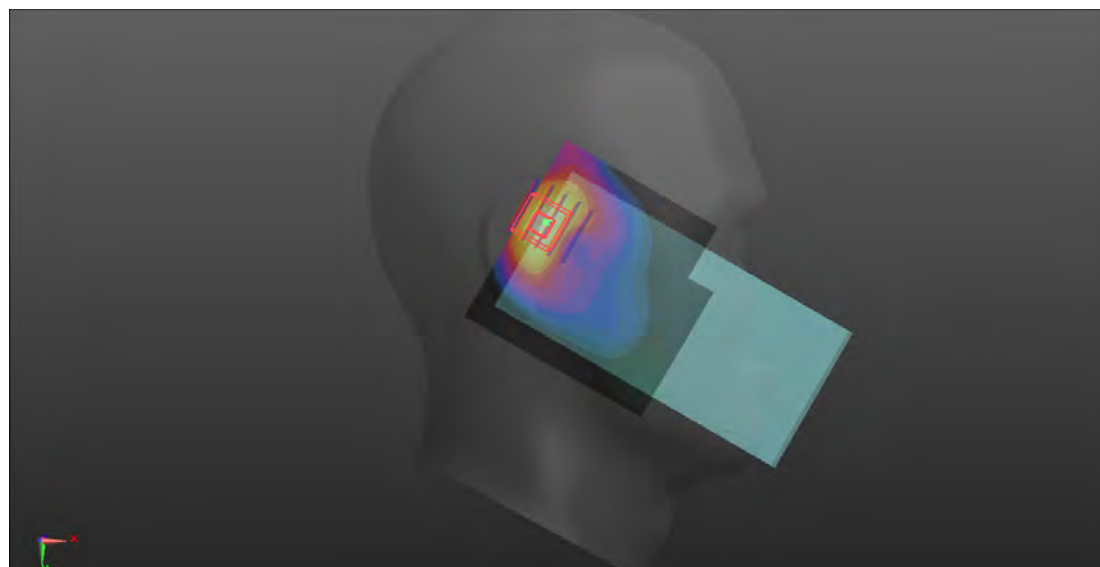
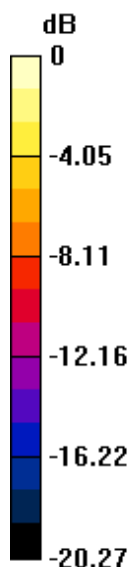
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 21.83 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.566 W/kg; SAR(10 g) = 0.255 W/kg**

Maximum value of SAR (measured) = 0.840 W/kg



0 dB = 0.840 W/kg

**P07 LTE 7\_QPSK20M\_Right Tilted\_0cm\_Ch20850\_1RB\_OS50\_Ant2**

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: HSL2600\_0831 Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.852$  S/m;  $\epsilon_r = 39.259$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2510 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 1.11 W/kg

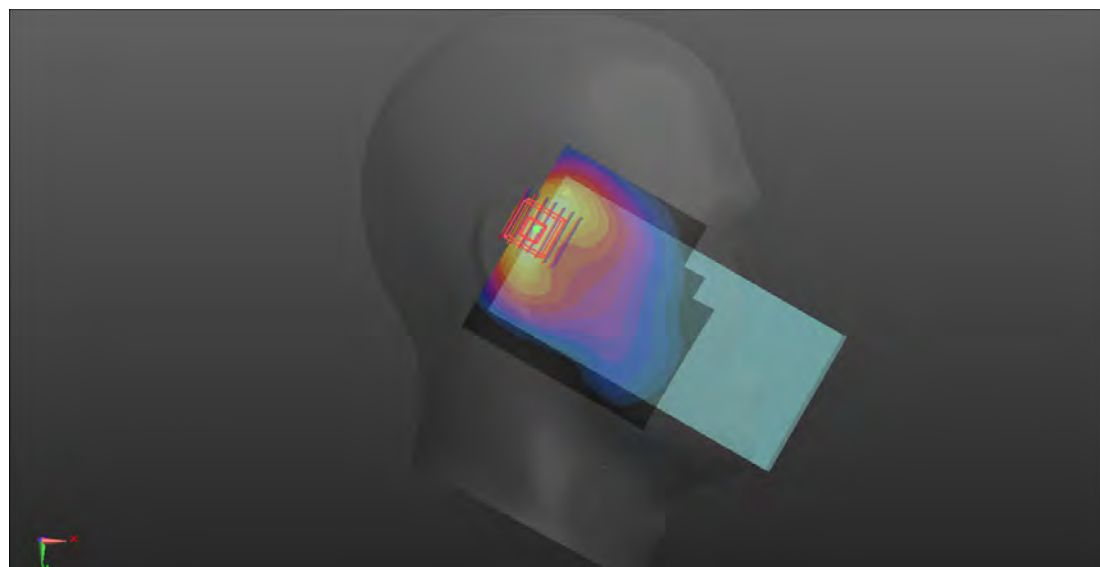
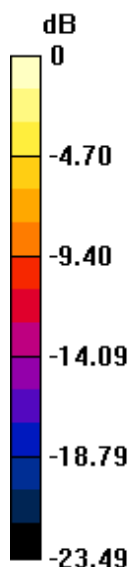
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 22.69 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.347 W/kg**

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg

**P08 LTE 13\_QPSK10M\_Right Cheek\_0cm\_Ch23230\_1RB\_OS24\_Ant2**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750\_0824 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.92 \text{ S/m}$ ;  $\epsilon_r = 43.288$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.4^\circ\text{C}$ ; Liquid Temperature :  $22.7^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(11.35, 11.35, 11.35) @ 782 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $1.22 \text{ W/kg}$

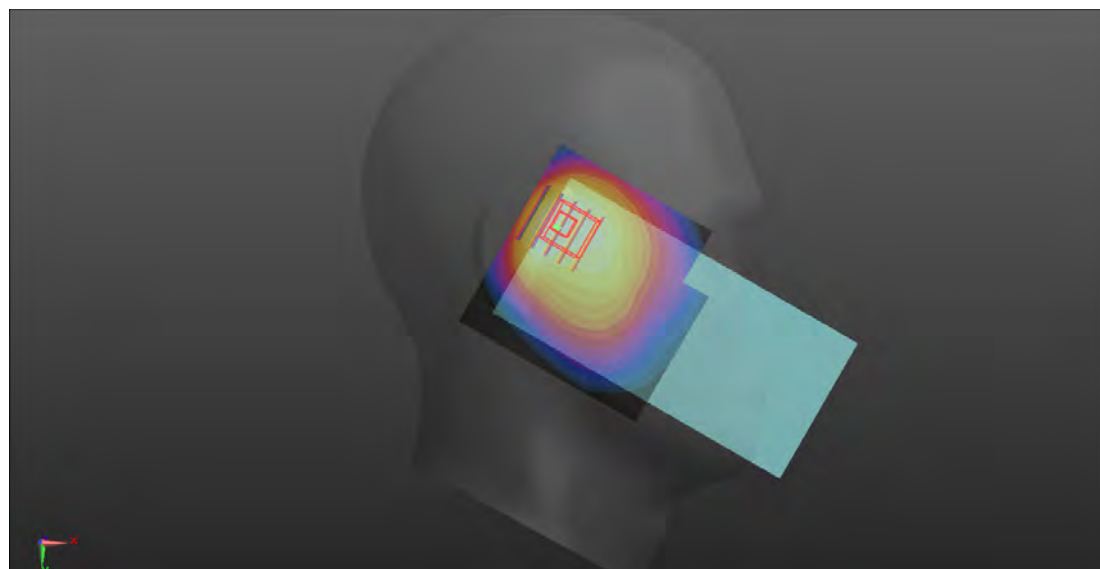
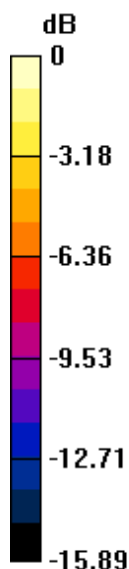
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $30.53 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $1.44 \text{ W/kg}$

**SAR(1 g) =  $0.786 \text{ W/kg}$ ; SAR(10 g) =  $0.509 \text{ W/kg}$**

Maximum value of SAR (measured) =  $1.00 \text{ W/kg}$



0 dB =  $1.00 \text{ W/kg}$

**P09 LTE 26\_QPSK15M\_Right Cheek\_Ch26965\_1RB\_OS37\_Ant2**

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium: HSL835\_0826 Medium parameters used:  $f = 841.5$  MHz;  $\sigma = 0.939$  S/m;  $\epsilon_r = 43.114$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.4°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 841.5 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

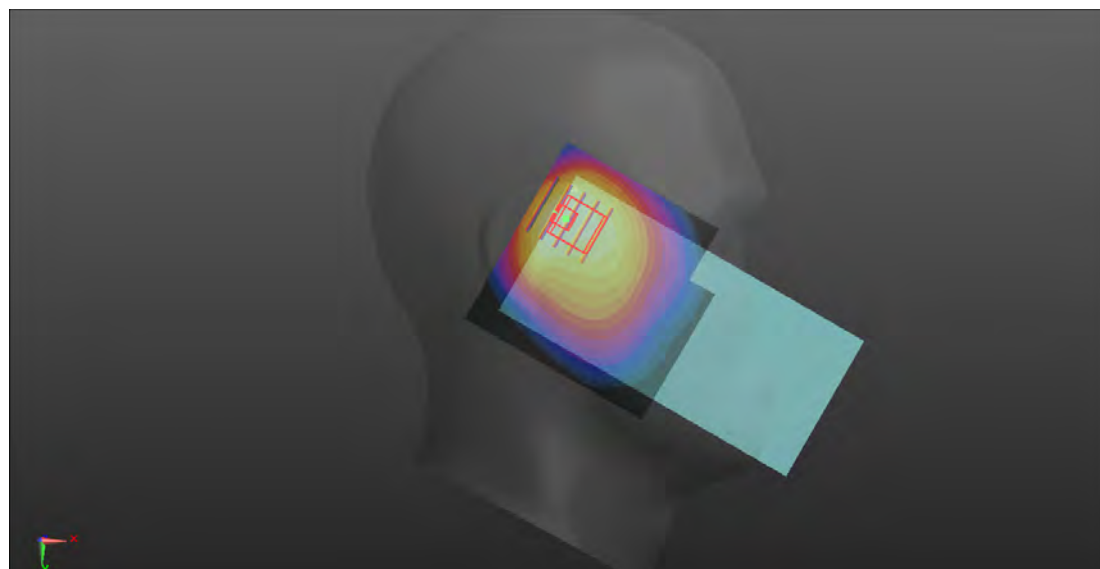
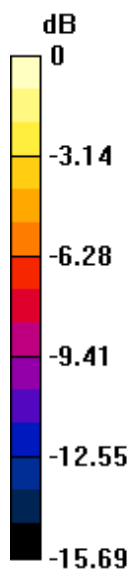
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.11 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.536 W/kg**

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg

**P10 LTE 41\_QPSK20M\_Right Tilted\_Ch41490\_50RB\_OS25\_Ant2**

Communication System: LTE TDD; Frequency: 2680 MHz; Duty Cycle: 1:1.59

Medium: HSL2600\_0901 Medium parameters used:  $f = 2680$  MHz;  $\sigma = 1.987$  S/m;  $\epsilon_r = 38.942$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(7.85, 7.85, 7.85) @ 2680 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

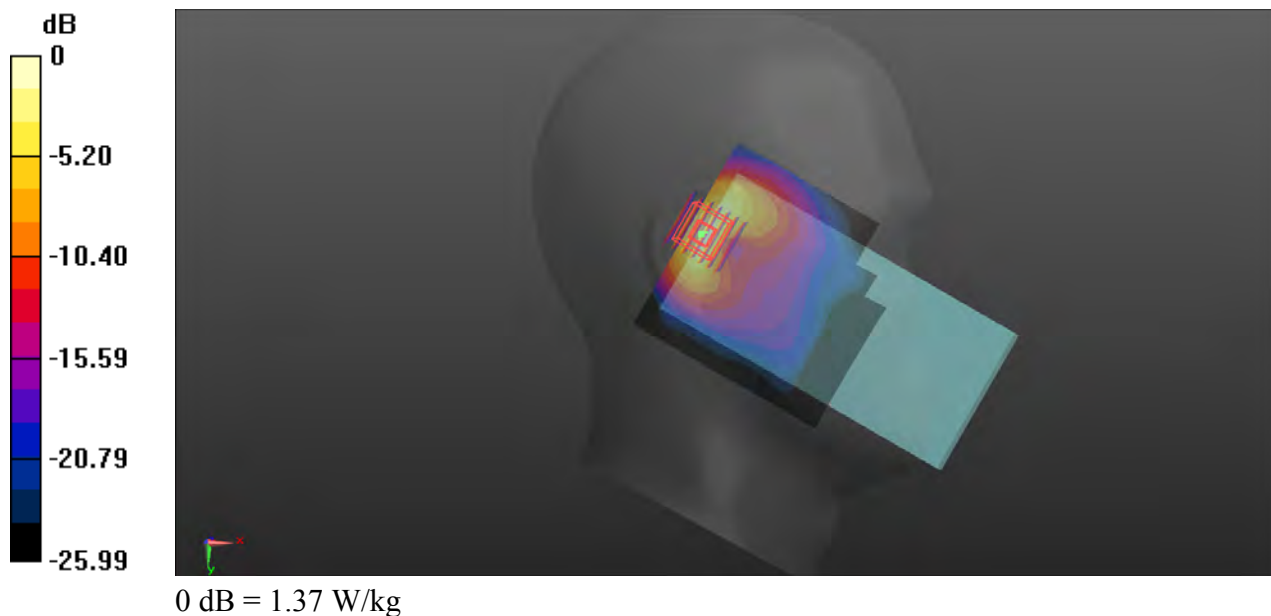
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.97 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.340 W/kg**

Maximum value of SAR (measured) = 1.37 W/kg



**P11 LTE 66\_QPSK20M\_Right Tilted\_Ch132072\_1RB\_OS50\_Ant2**

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0828 Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.401$  S/m;  $\epsilon_r = 41.003$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1720 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.945 W/kg

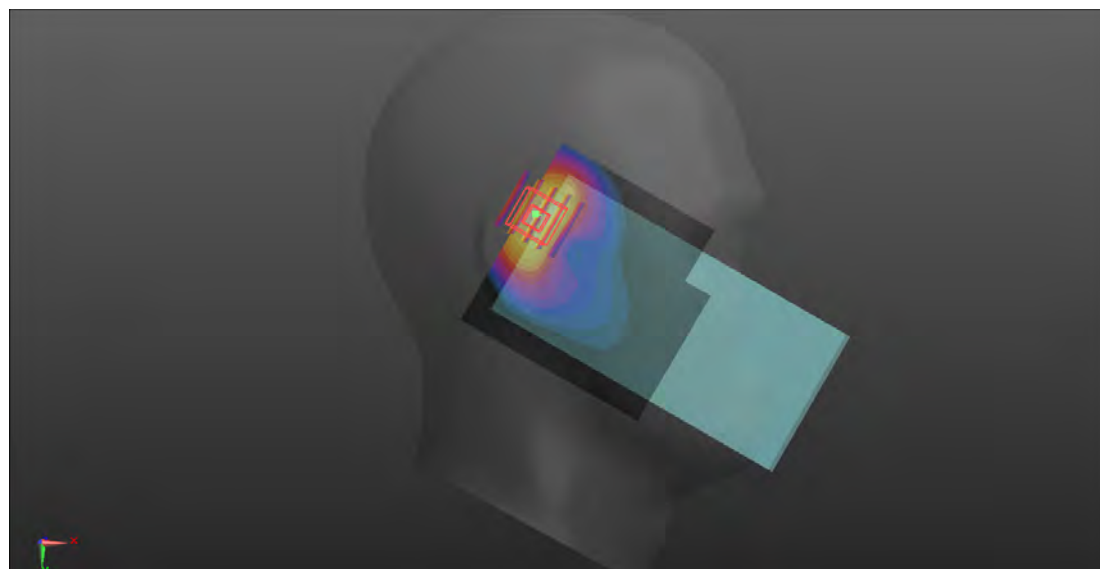
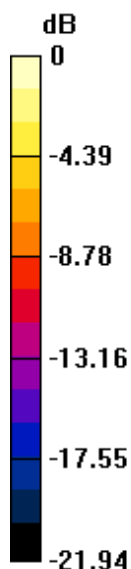
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.54 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.377 W/kg**

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



0 dB = 1.17 W/kg

**P12 WLAN2.4G\_802.11b\_Left Cheek\_0cm\_Ch11\_Ant3**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium: HSL2450\_0824 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 39.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2462 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.592 W/kg

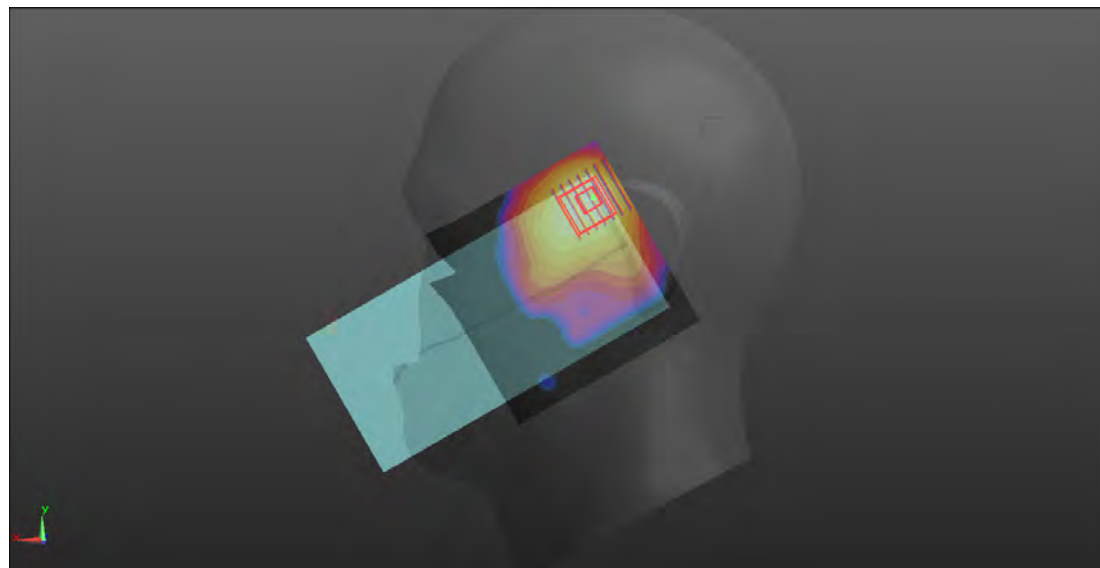
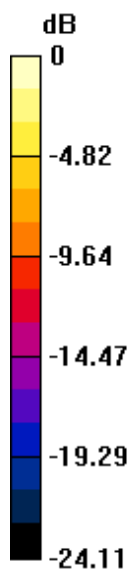
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.313 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.716 W/kg

**SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.186 W/kg**

Maximum value of SAR (measured) = 0.523 W/kg



0 dB = 0.523 W/kg

**P13 WLAN5G\_802.11acVHT80\_Left Tilted\_0cm\_Ch58\_Ant3**

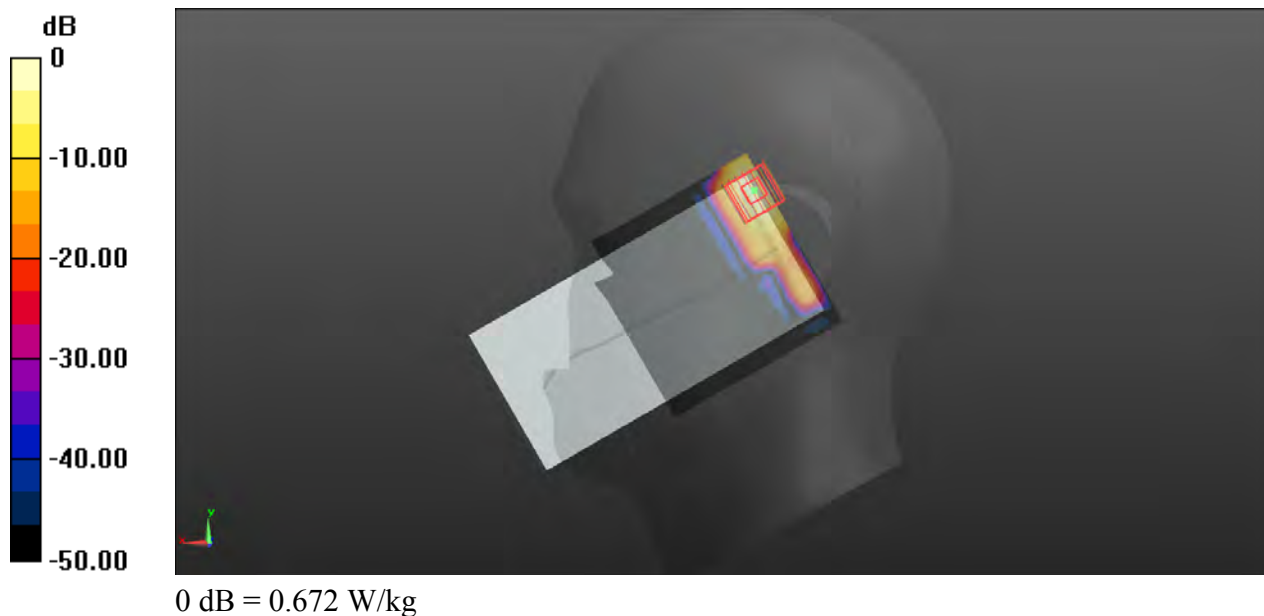
Communication System: 802.11ac\_VHT80; Frequency: 5290 MHz; Duty Cycle: 1:1.036  
Medium: HSL5G\_0827 Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.624$  S/m;  $\epsilon_r = 36.194$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.7, 5.7, 5.7) @ 5290 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 0.618 W/kg

**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 3.809 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 1.37 W/kg  
**SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.078 W/kg**  
Maximum value of SAR (measured) = 0.672 W/kg



**P14 WLAN5G\_802.11acVHT80\_Left Tilted\_0cm\_Ch106\_Ant3**

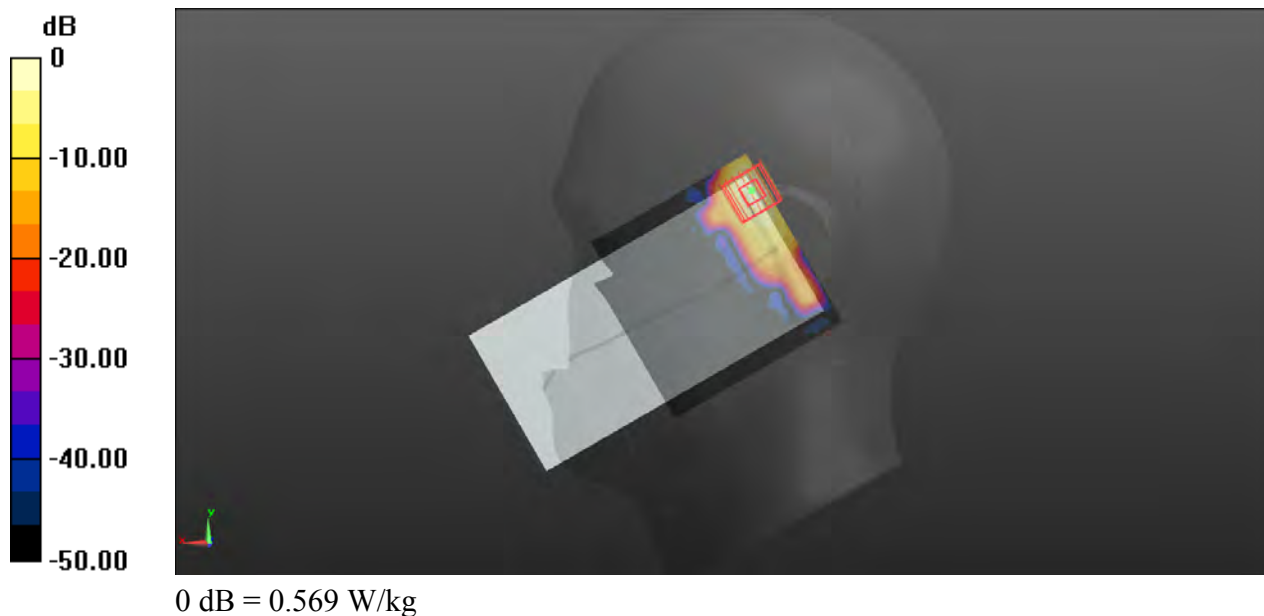
Communication System: 802.11ac\_VHT80; Frequency: 5530 MHz; Duty Cycle: 1:1.036  
Medium: HSL5G\_0825 Medium parameters used:  $f = 5530$  MHz;  $\sigma = 4.927$  S/m;  $\epsilon_r = 35.792$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.1, 5.1, 5.1) @ 5530 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 0.528 W/kg

**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 3.303 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 1.15 W/kg  
**SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.066 W/kg**  
Maximum value of SAR (measured) = 0.569 W/kg



**P15 WLAN5G\_802.11acVHT80\_Left Cheek\_0cm\_Ch155\_Ant3**

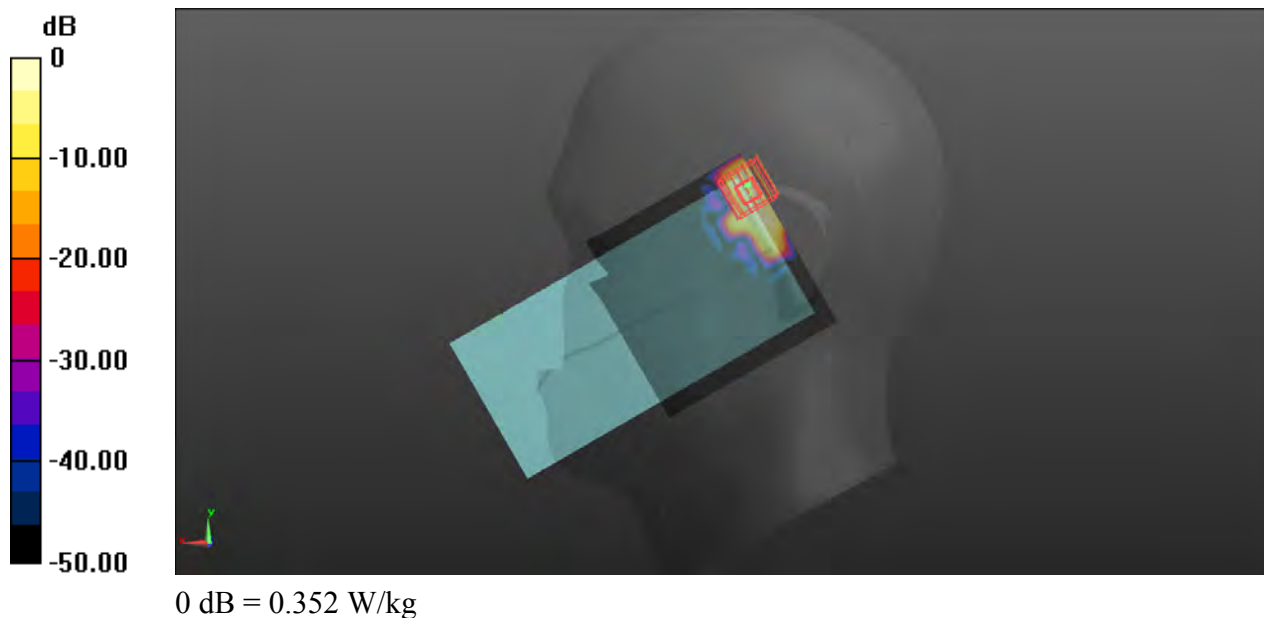
Communication System: 802.11ac\_VHT80; Frequency: 5775 MHz; Duty Cycle: 1:1.156  
Medium: HSL5G\_0826 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.159$  S/m;  $\epsilon_r = 35.315$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.21, 5.21, 5.21) @ 5775 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.629 W/kg

**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 3.481 V/m; Power Drift = -0.02 dB  
Peak SAR (extrapolated) = 0.786 W/kg  
**SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.039 W/kg**  
Maximum value of SAR (measured) = 0.352 W/kg



**P16 BT\_GFSK\_Left Cheek\_0cm\_Ch39\_Ant3**

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium: HSL2450\_0824 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.801$  S/m;  $\epsilon_r = 39.356$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2441 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.174 W/kg

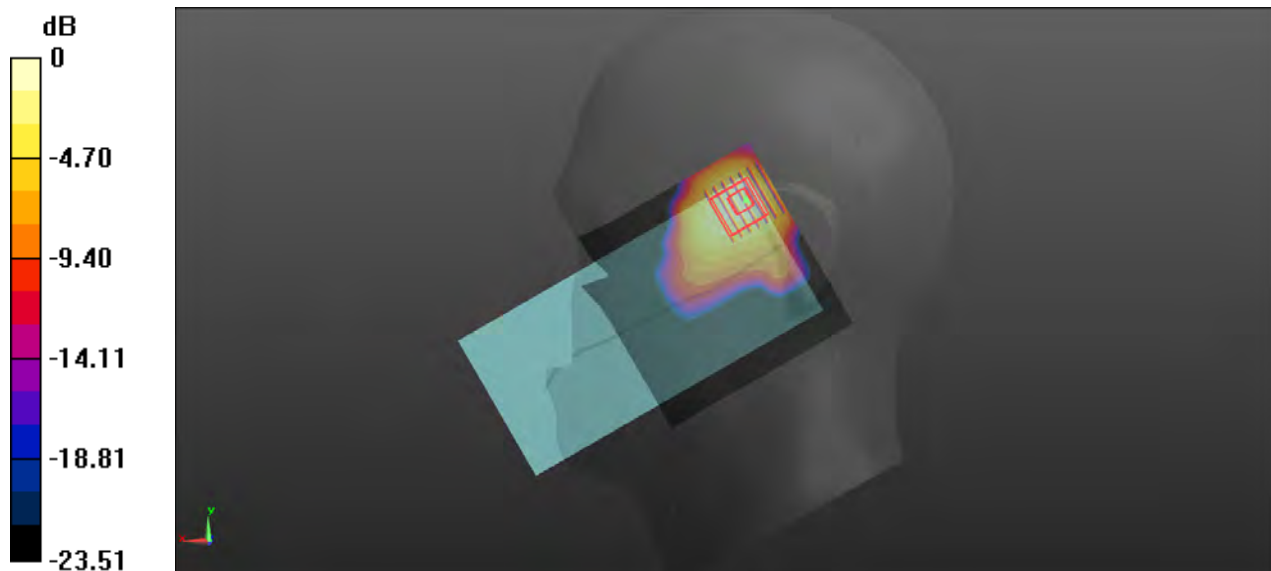
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.460 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.057 W/kg**

Maximum value of SAR (measured) = 0.158 W/kg



0 dB = 0.158 W/kg

**P17 GSM850\_GPRS 4Tx slot\_Rear Face\_1cm\_Ch251\_Ant2**

Communication System: GPRS 4Tx-slot; Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: HSL835\_0825 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.944$  S/m;  $\epsilon_r = 42.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 848.8 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

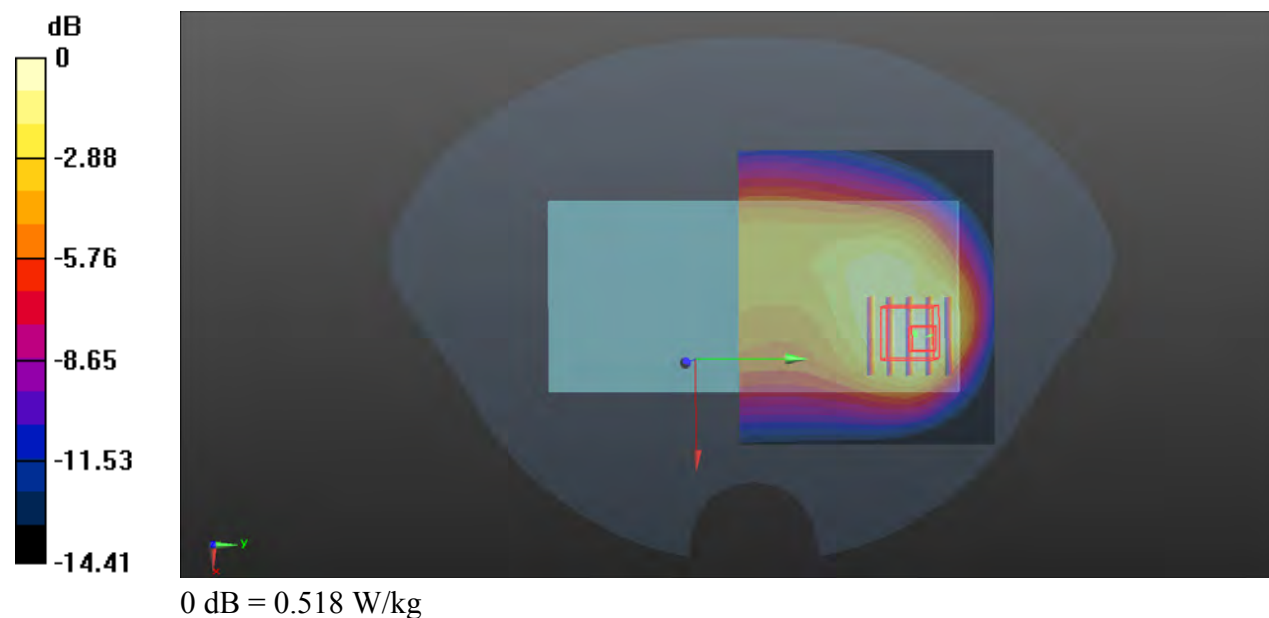
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.81 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.838 W/kg

**SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 0.518 W/kg



**P18 GSM1900\_GPRS4Tx slot\_Rear Face\_1cm\_Ch512\_Ant1**

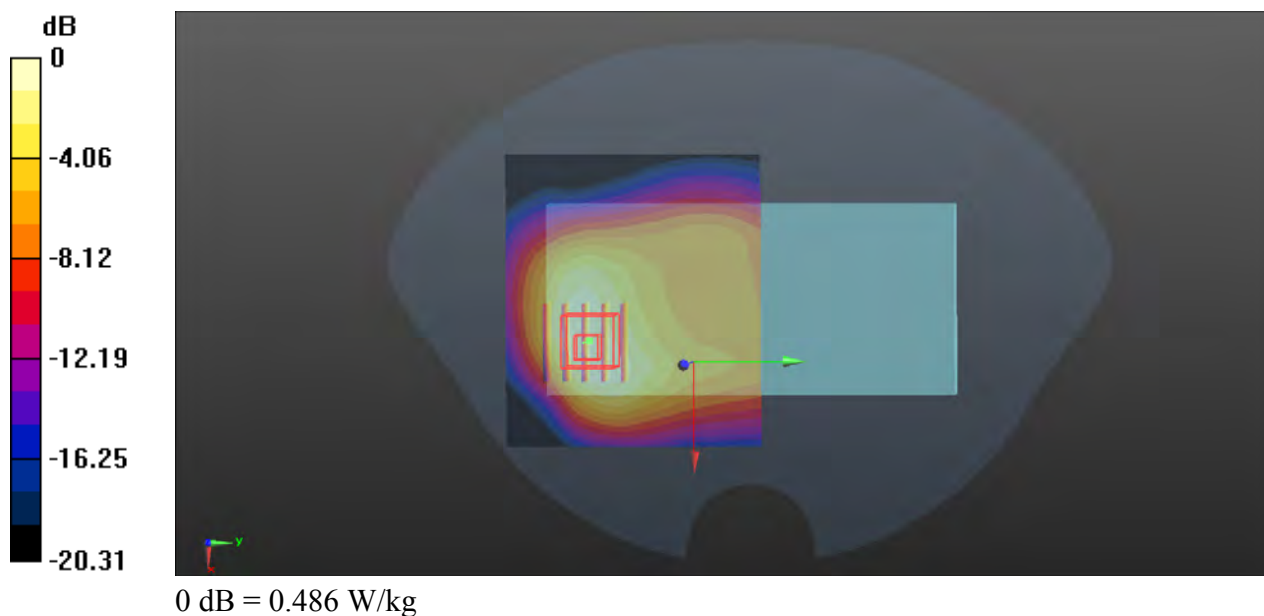
Communication System: GPRS 4Tx-slot; Frequency: 1850.2 MHz; Duty Cycle: 1:2.08  
Medium: HSL1900\_0829 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.333$  S/m;  $\epsilon_r = 39.731$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1850.2 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.518 W/kg

**- Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 9.284 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.811 W/kg  
**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.265 W/kg**  
Maximum value of SAR (measured) = 0.486 W/kg



**P19 WCDMA II\_RMC12.2K\_Rear Face\_1cm\_Ch9262\_Ant1**

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0829 Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 39.719$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1852.4 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.608 W/kg

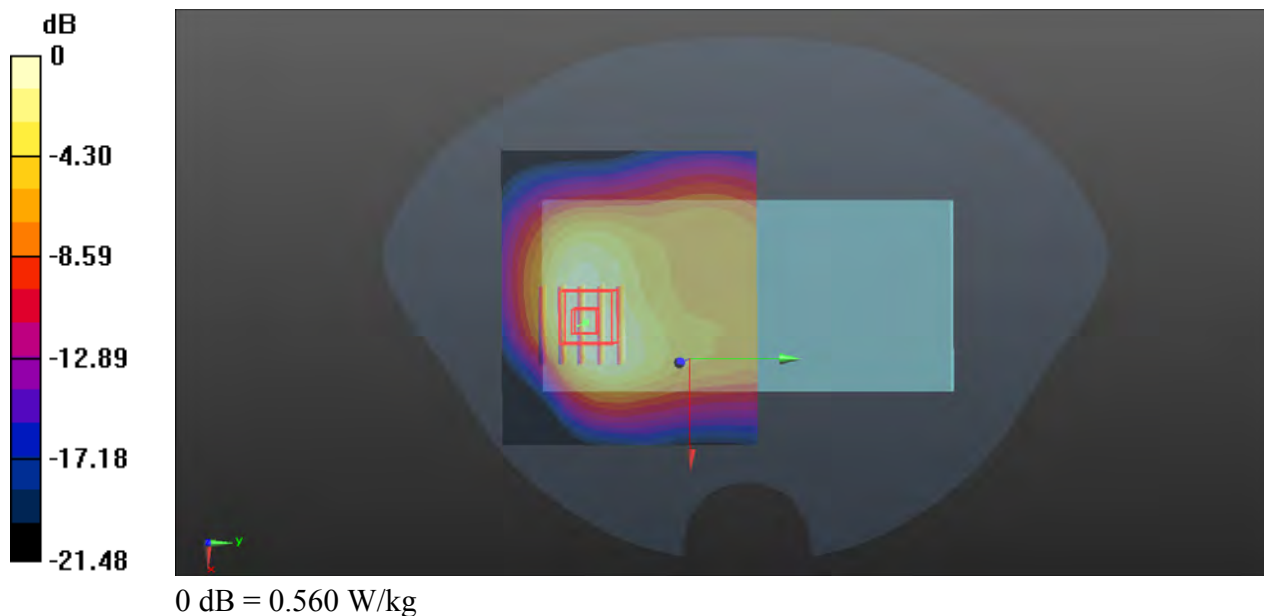
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.06 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.900 W/kg

**SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.296 W/kg**

Maximum value of SAR (measured) = 0.560 W/kg



**P20 WCDMA IV\_RMC12.2K\_Rear Face\_1cm\_Ch1413\_Ant2**

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0827 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.252$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1732.6 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.650 W/kg

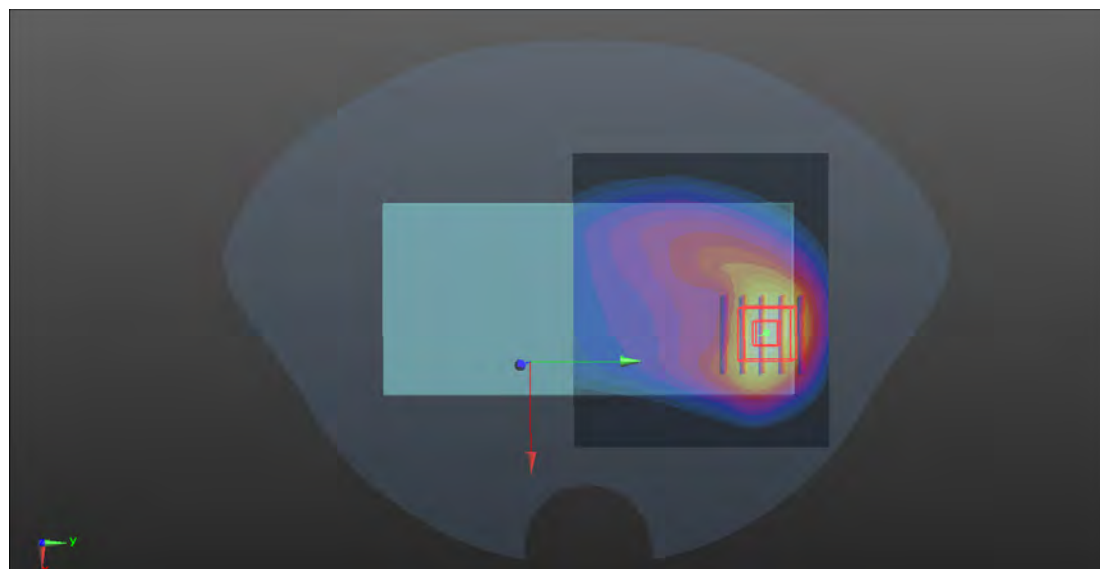
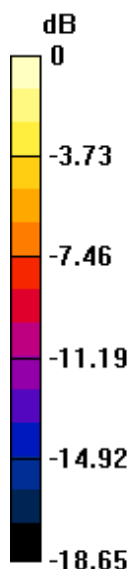
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.477 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.286 W/kg**

Maximum value of SAR (measured) = 0.665 W/kg



0 dB = 0.665 W/kg

**P21 WCDMA V\_RMC12.2K\_Rear Face\_1cm\_Ch4182\_Ant2**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835\_0825 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.932$  S/m;  $\epsilon_r = 42.948$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 836.4 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.367 W/kg

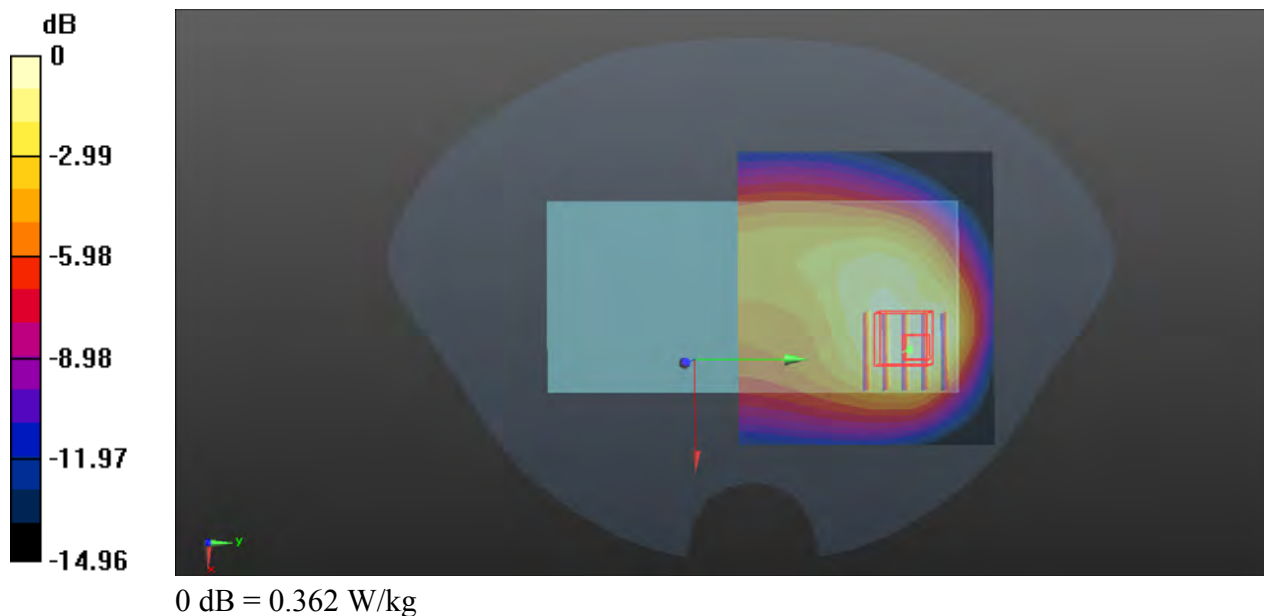
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.90 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.560 W/kg

**SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.212 W/kg**

Maximum value of SAR (measured) = 0.362 W/kg



**P22 LTE 2\_QPSK20M\_Rear Face\_1cm\_Ch18700\_50RB\_OS0\_Ant1**

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0830 Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.346$  S/m;  $\epsilon_r = 39.656$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1860 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.522 W/kg

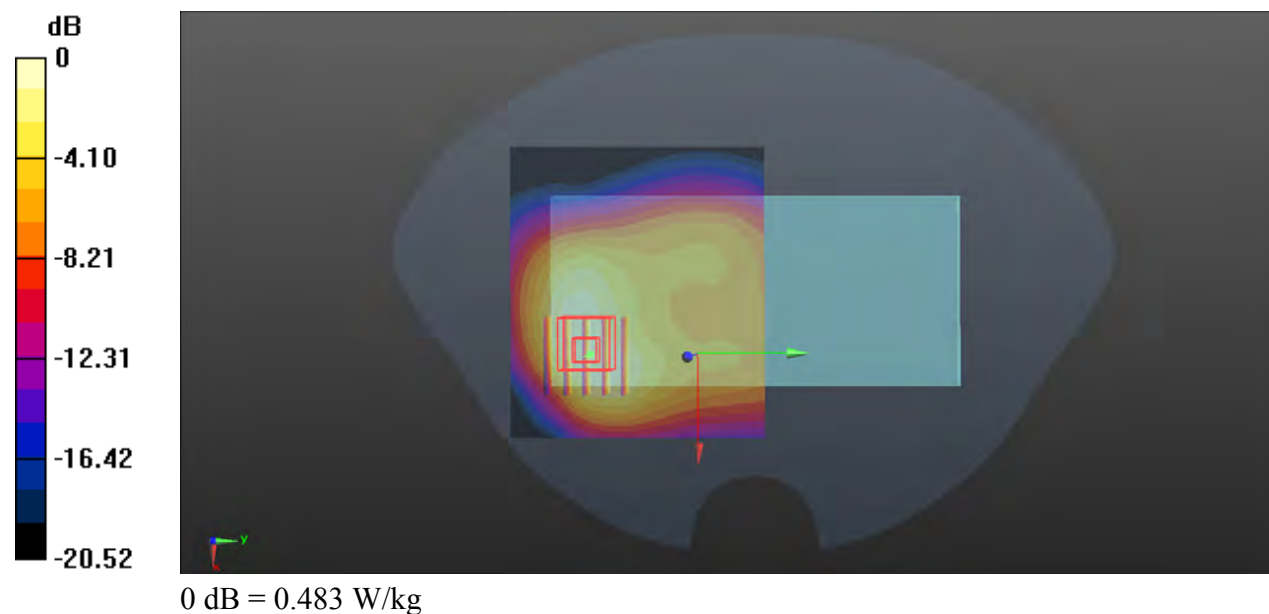
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.319 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.787 W/kg

**SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.261 W/kg**

Maximum value of SAR (measured) = 0.483 W/kg



**P23 LTE 7\_QPSK20M\_Rear Face\_1cm\_Ch21350\_50RB\_OS25\_Ant1**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600\_0831 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 2.007$  S/m;  $\epsilon_r = 38.187$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2560 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.688 W/kg

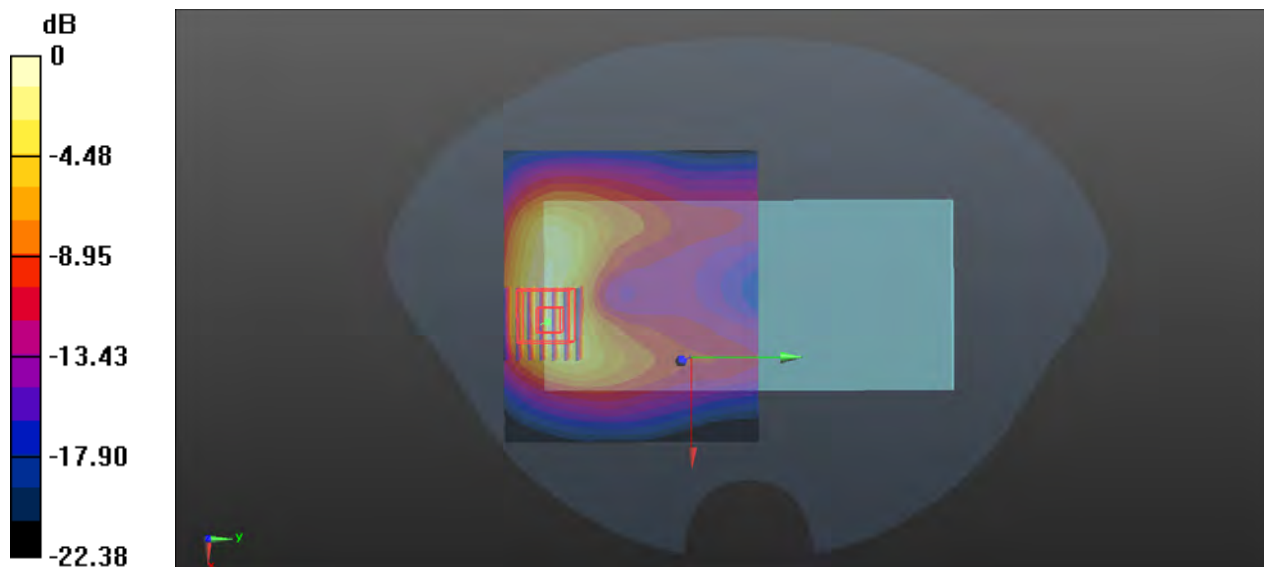
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.754 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.294 W/kg**

Maximum value of SAR (measured) = 0.724 W/kg



0 dB = 0.724 W/kg

**P24 LTE 13\_QPSK10M\_Rear Face\_1cm\_Ch23230\_1RB\_OS24\_Ant2**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750\_0824 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.925 \text{ S/m}$ ;  $\epsilon_r = 40.665$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.4^\circ\text{C}$ ; Liquid Temperature :  $22.7^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(11.35, 11.35, 11.35) @ 782 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1)**: Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.344 \text{ W/kg}$

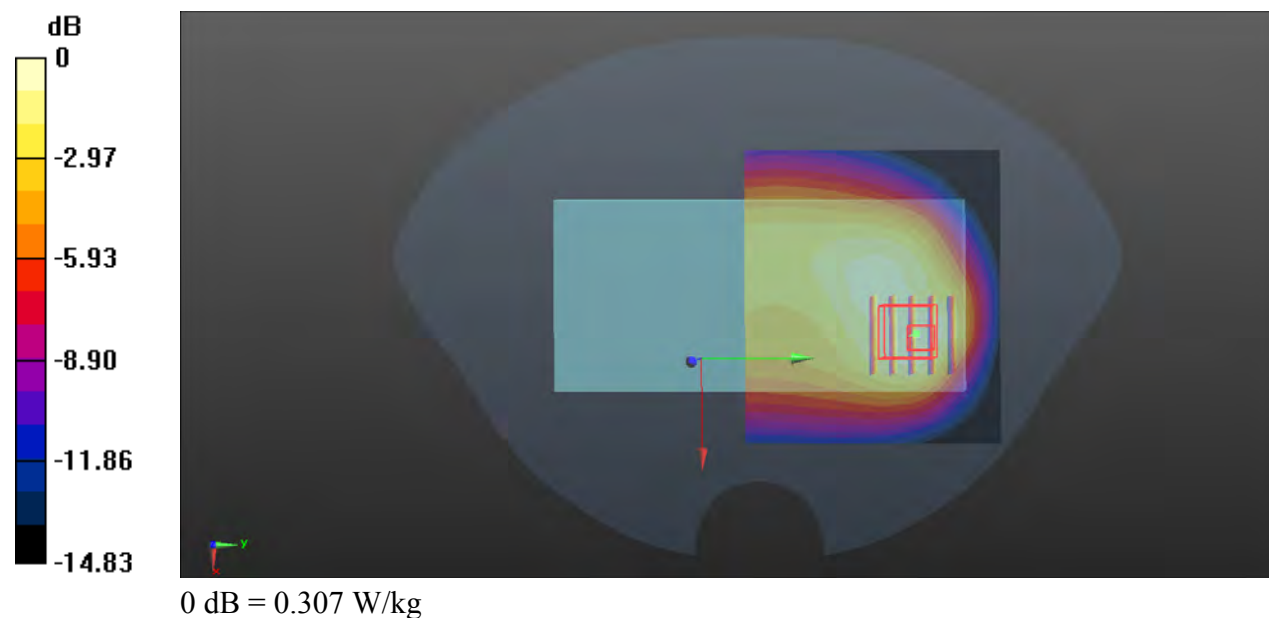
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $13.48 \text{ V/m}$ ; Power Drift =  $0.08 \text{ dB}$

Peak SAR (extrapolated) =  $0.525 \text{ W/kg}$

**SAR(1 g) =  $0.293 \text{ W/kg}$ ; SAR(10 g) =  $0.178 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.307 \text{ W/kg}$



**P25 LTE 26\_QPSK15M\_Rear Face\_1cm\_Ch26865\_1RB\_OS37\_Ant2**

Communication System: LTE; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835\_0826 Medium parameters used:  $f = 831.5$  MHz;  $\sigma = 0.928$  S/m;  $\epsilon_r = 43.004$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.4°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 831.5 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.382 W/kg

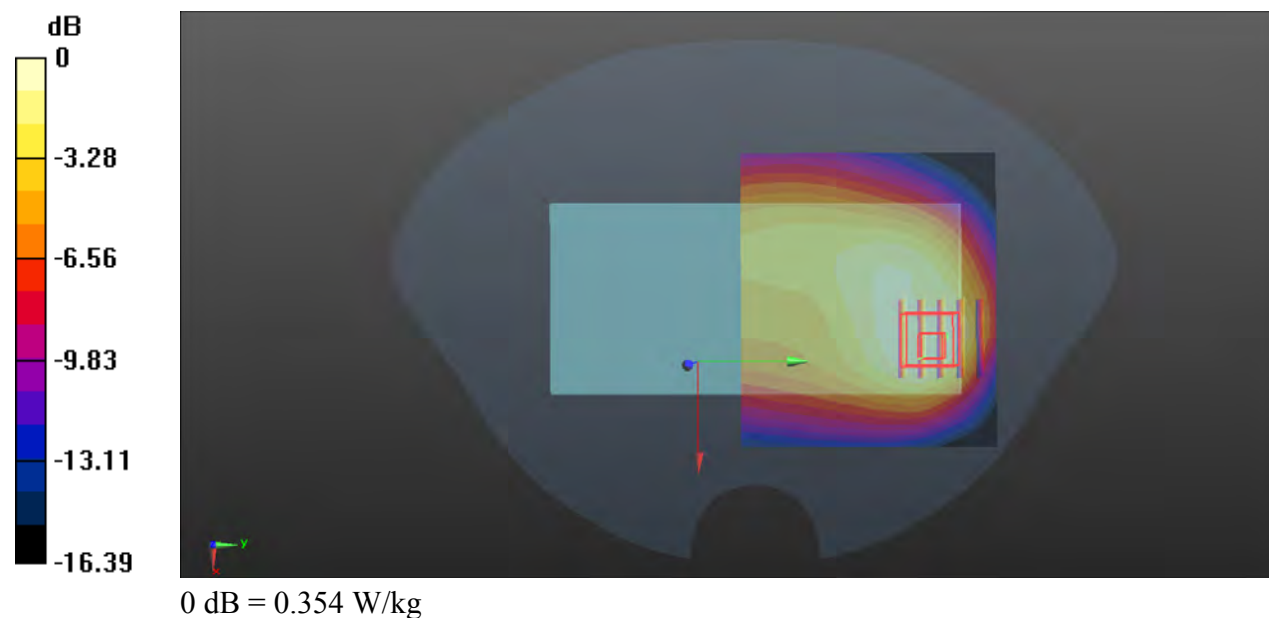
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.18 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.586 W/kg

**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.208 W/kg**

Maximum value of SAR (measured) = 0.354 W/kg



**P26 LTE 41\_QPSK20M\_Rear Face\_1cm\_Ch39750\_50RB\_OS25\_Ant1**

Communication System: LTE TDD; Frequency: 2506 MHz; Duty Cycle: 1:1.59

Medium: HSL2600\_0901 Medium parameters used:  $f = 2506$  MHz;  $\sigma = 1.945$  S/m;  $\epsilon_r = 38.326$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2506 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (101x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.503 W/kg

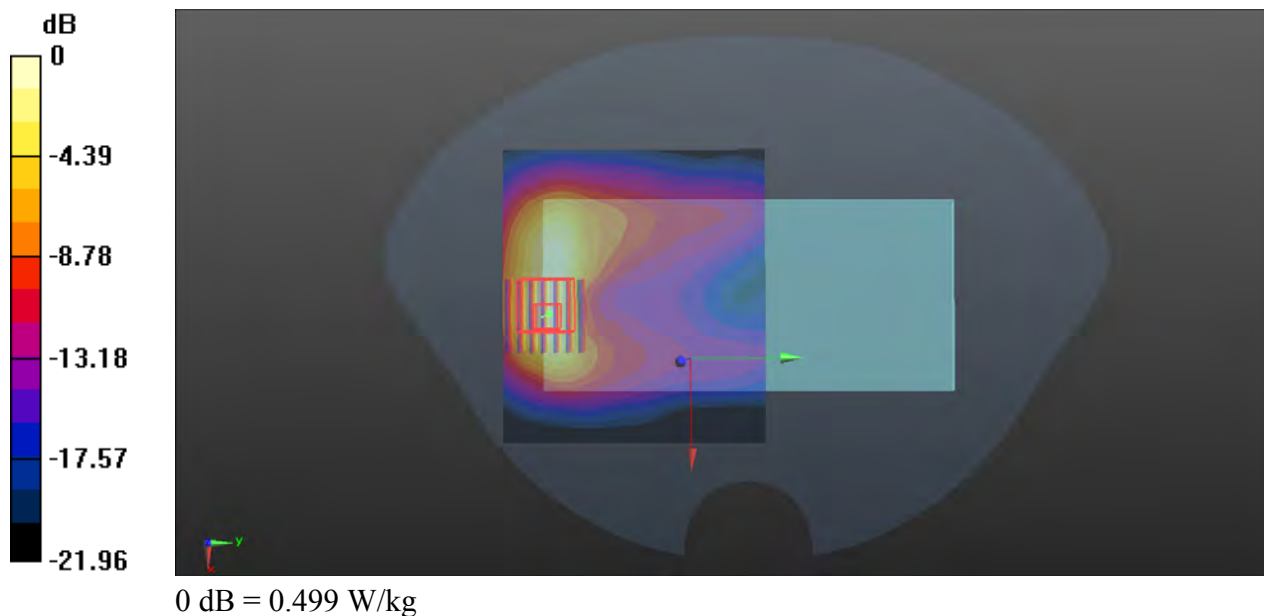
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.748 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.923 W/kg

**SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.208 W/kg**

Maximum value of SAR (measured) = 0.499 W/kg



**P27 LTE 66\_QPSK20M\_Rear Face\_1cm\_Ch132322\_50RB\_OS25\_Ant2**

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0828 Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.375$  S/m;  $\epsilon_r = 41.205$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1745 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.553 W/kg

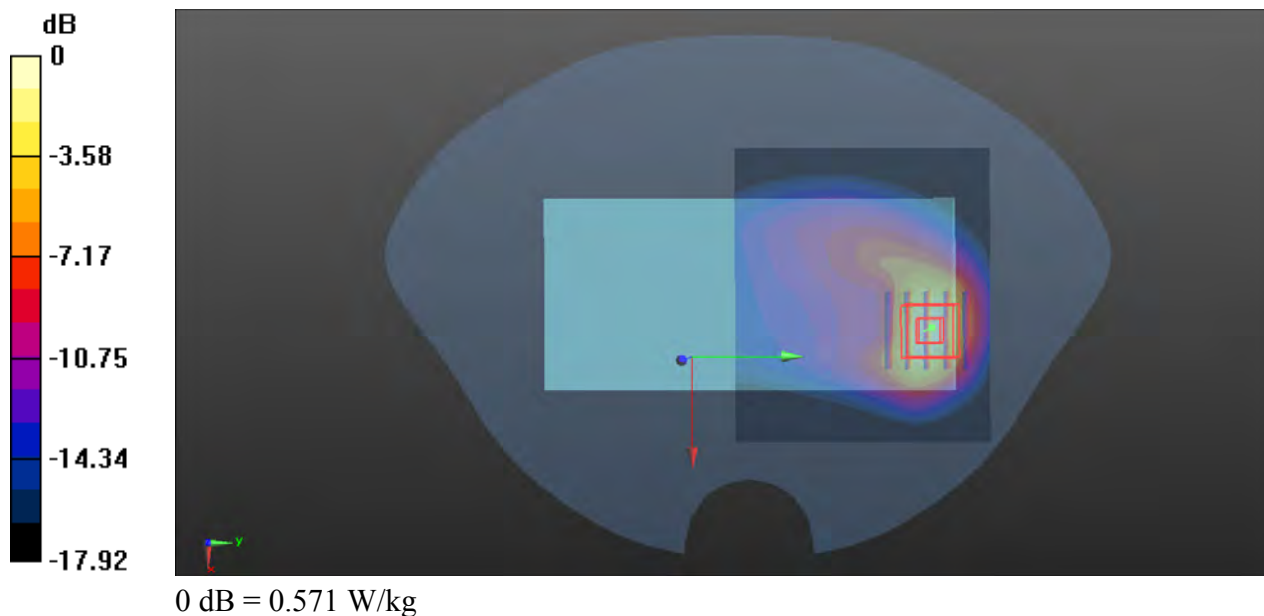
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.431 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.950 W/kg

**SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.251 W/kg**

Maximum value of SAR (measured) = 0.571 W/kg



**P28 WLAN2.4G\_802.11b\_Rear Face\_1cm\_Ch11\_Ant3**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium: HSL2450\_0824 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 39.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2462 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.417 W/kg

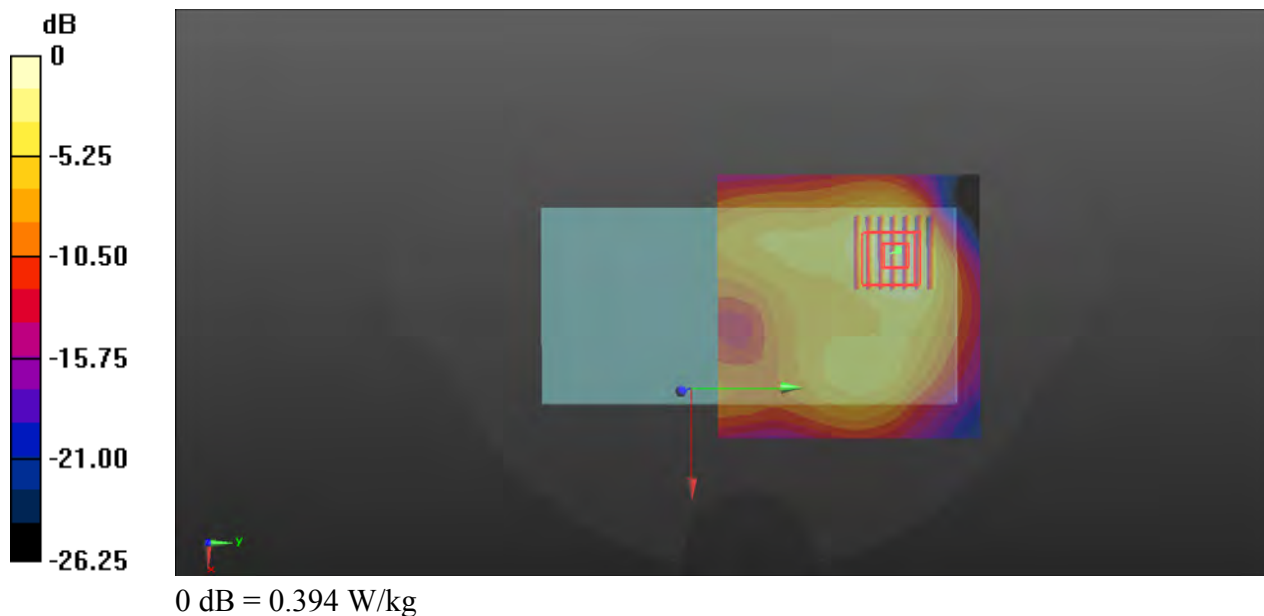
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.253 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.539 W/kg

**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.132 W/kg**

Maximum value of SAR (measured) = 0.394 W/kg



**P29 WLAN5G\_802.11acVHT80\_Rear Face\_1cm\_Ch58\_Ant3**

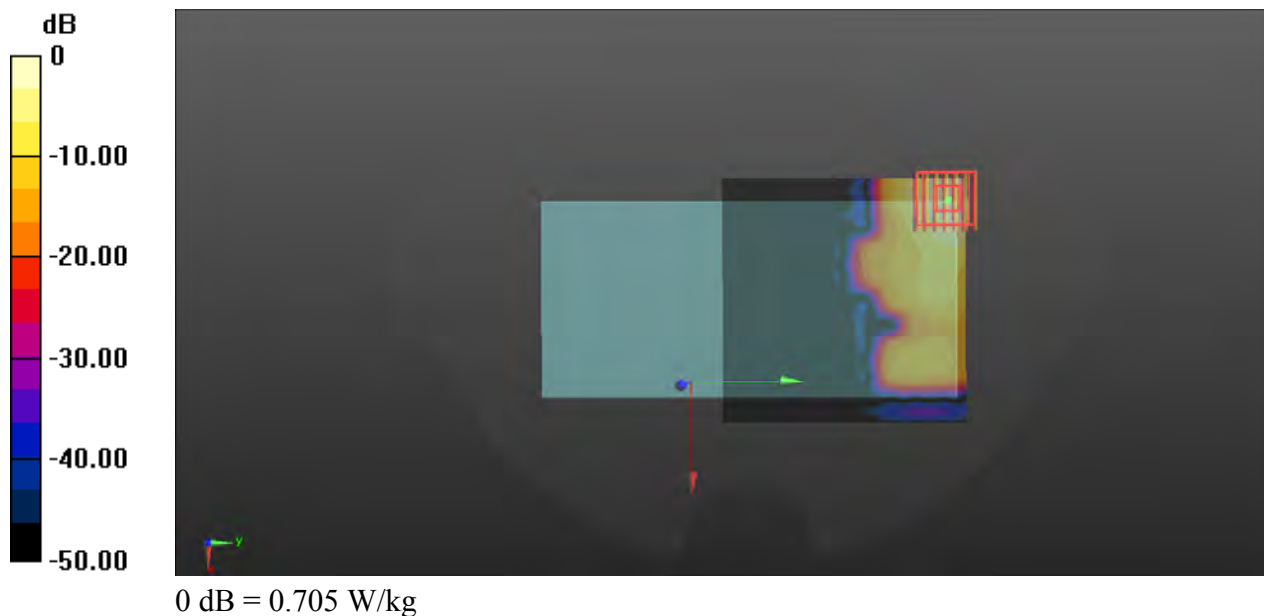
Communication System: 802.11ac\_VHT80; Frequency: 5290 MHz; Duty Cycle: 1:1.036  
Medium: HSL5G\_0827 Medium parameters used:  $f = 5290$  MHz;  $\sigma = 4.624$  S/m;  $\epsilon_r = 36.194$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.7, 5.7, 5.7) @ 5290 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.681 W/kg

**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 1.30 W/kg  
**SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.130 W/kg**  
Maximum value of SAR (measured) = 0.705 W/kg



**P30 WLAN5G\_802.11a\_Rear Face\_1cm\_Ch116\_Ant3**

Communication System: 802.11a; Frequency: 5580 MHz; Duty Cycle: 1:1.036

Medium: HSL5G\_0825 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.984$  S/m;  $\epsilon_r = 35.687$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.1, 5.1, 5.1) @ 5580 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 1.01 W/kg

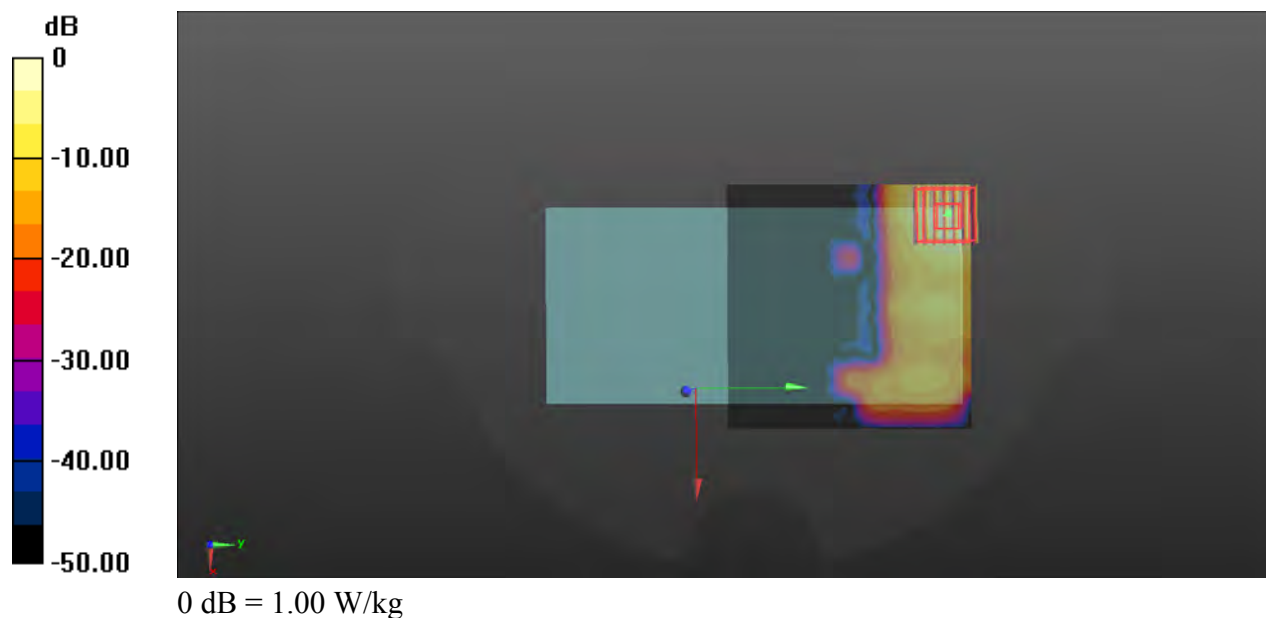
**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.179 W/kg**

Maximum value of SAR (measured) = 1.00 W/kg



**P31 WLAN5G\_802.11acVHT80\_Rear Face\_1cm\_Ch155\_Ant3**

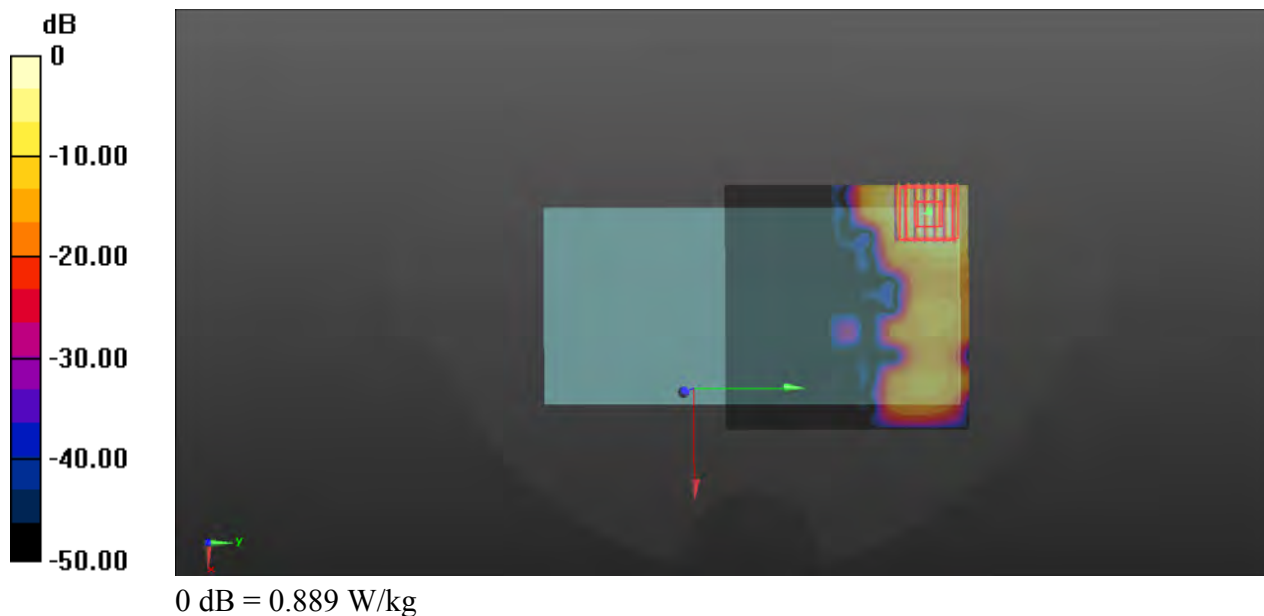
Communication System: 802.11ac\_VHT80; Frequency: 5775 MHz; Duty Cycle: 1:1.156  
Medium: HSL5G\_0826 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.159$  S/m;  $\epsilon_r = 35.315$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.21, 5.21, 5.21) @ 5775 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.878 W/kg

**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 1.77 W/kg  
**SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.150 W/kg**  
Maximum value of SAR (measured) = 0.889 W/kg



**P32 BT\_GFSK\_Rear Face\_1cm\_Ch39\_Ant3**

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium: HSL2450\_0824 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.801$  S/m;  $\epsilon_r = 39.356$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2441 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0644 W/kg

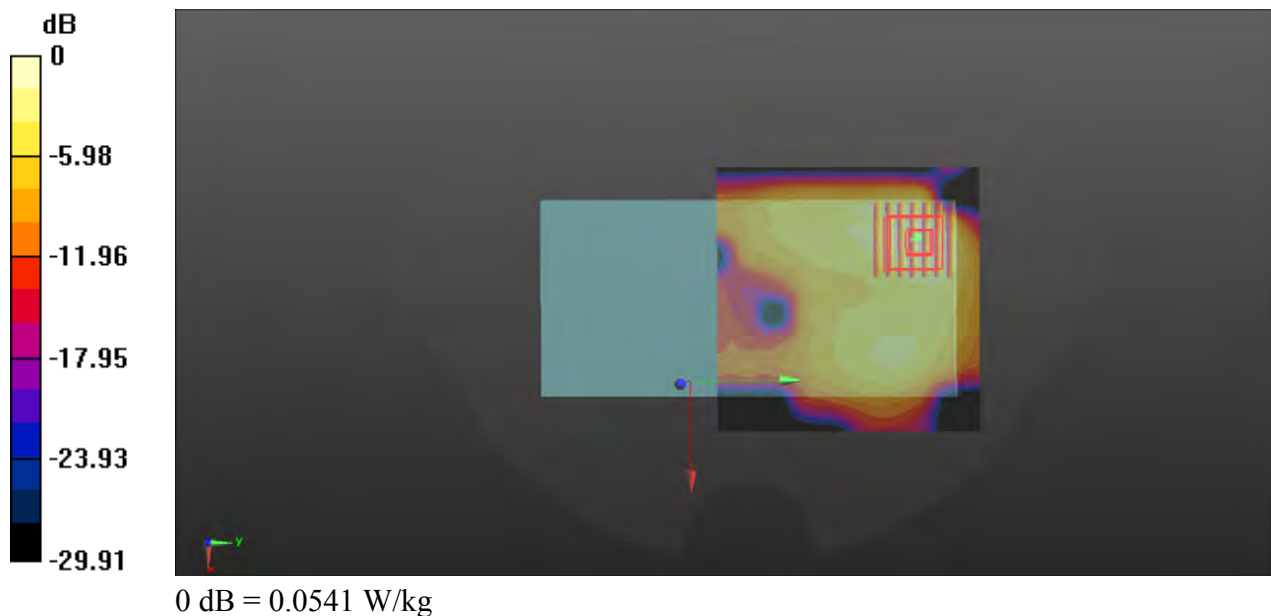
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.279 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0750 W/kg

**SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.018 W/kg**

Maximum value of SAR (measured) = 0.0541 W/kg



**P33 GSM850\_GPRS 4Tx slot\_Rear Face\_1cm\_Ch251\_Ant2**

Communication System: GPRS 4Tx-slot; Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: HSL835\_0825 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.944$  S/m;  $\epsilon_r = 42.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 848.8 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.534 W/kg

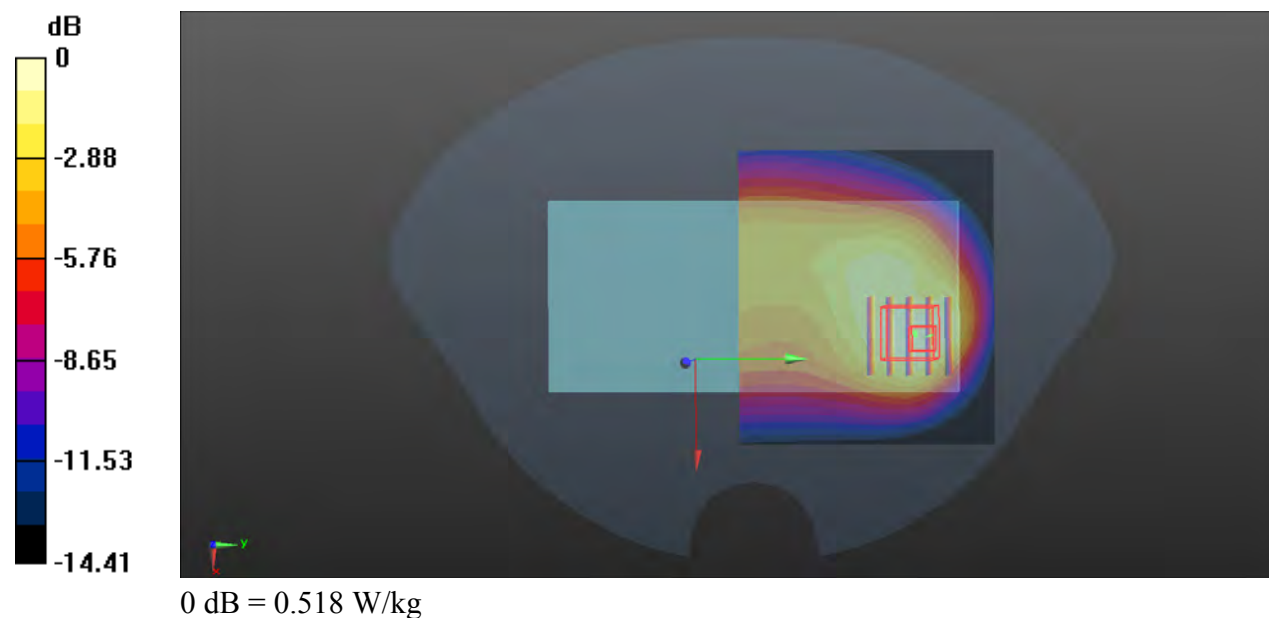
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.81 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.838 W/kg

**SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 0.518 W/kg



**P34 GSM1900\_GPRS 4Tx slot\_Top Side\_1cm\_Ch512\_Ant2**

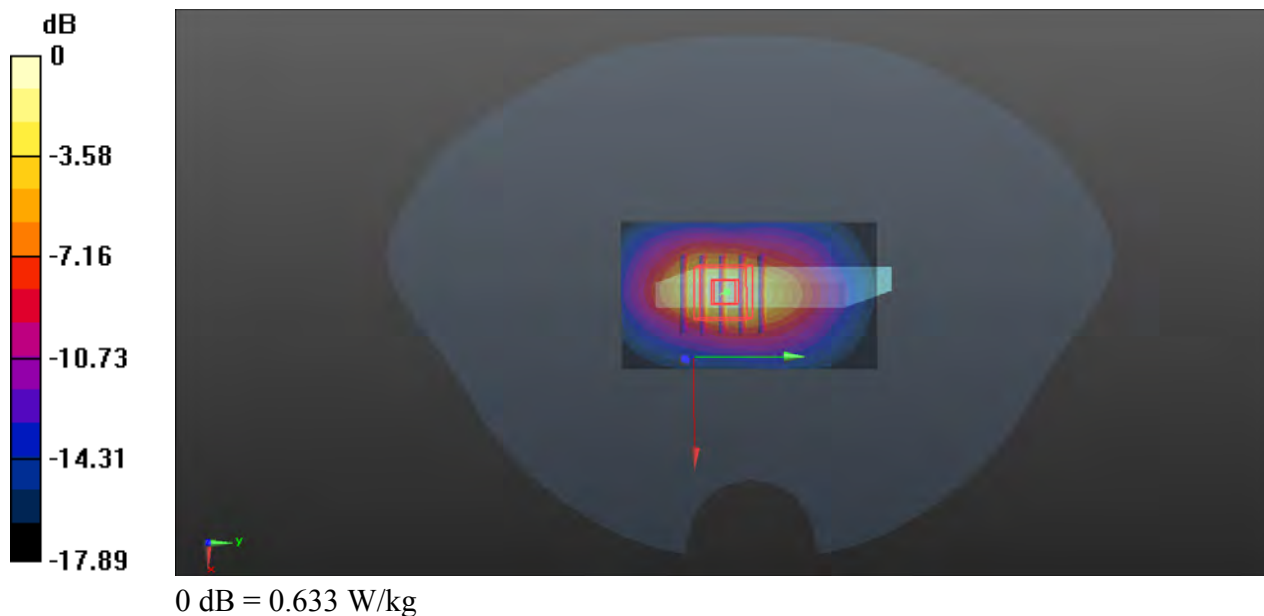
Communication System: GPRS 4Tx-slot; Frequency: 1850.2 MHz; Duty Cycle: 1:2.08  
Medium: HSL1900\_0829 Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.333$  S/m;  $\epsilon_r = 39.731$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1850.2 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 0.640 W/kg

- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 19.99 V/m; Power Drift = -0.16 dB  
Peak SAR (extrapolated) = 1.01 W/kg  
**SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.272 W/kg**  
Maximum value of SAR (measured) = 0.633 W/kg



**P35 WCDMA II\_RMC12.2K\_Bottom Side\_1cm\_Ch9262\_Ant1**

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0829 Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 39.719$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1852.4 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.616 W/kg

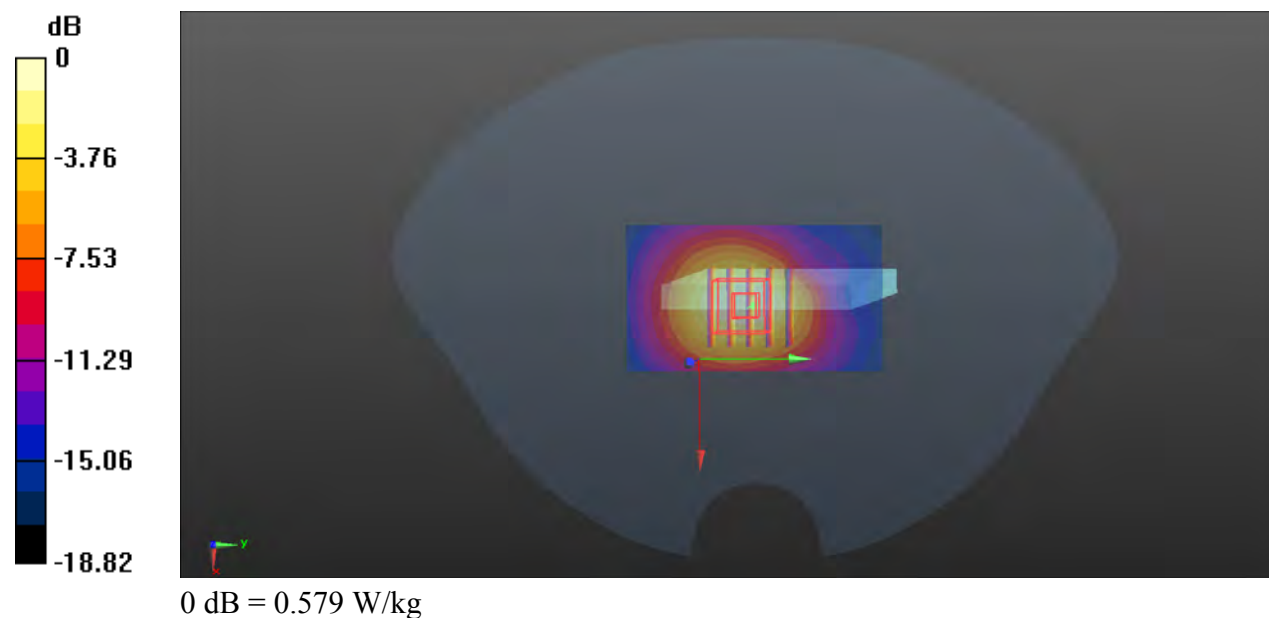
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.80 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.913 W/kg

**SAR(1 g) = 0.530 W/kg; SAR(10 g) = 0.294 W/kg**

Maximum value of SAR (measured) = 0.579 W/kg



**P36 WCDMA IV\_RMC12.2K\_Top Side\_1.9cm\_Ch1413\_Ant2**

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0827 Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.413$  S/m;  $\epsilon_r = 40.994$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1732.6 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.42 W/kg

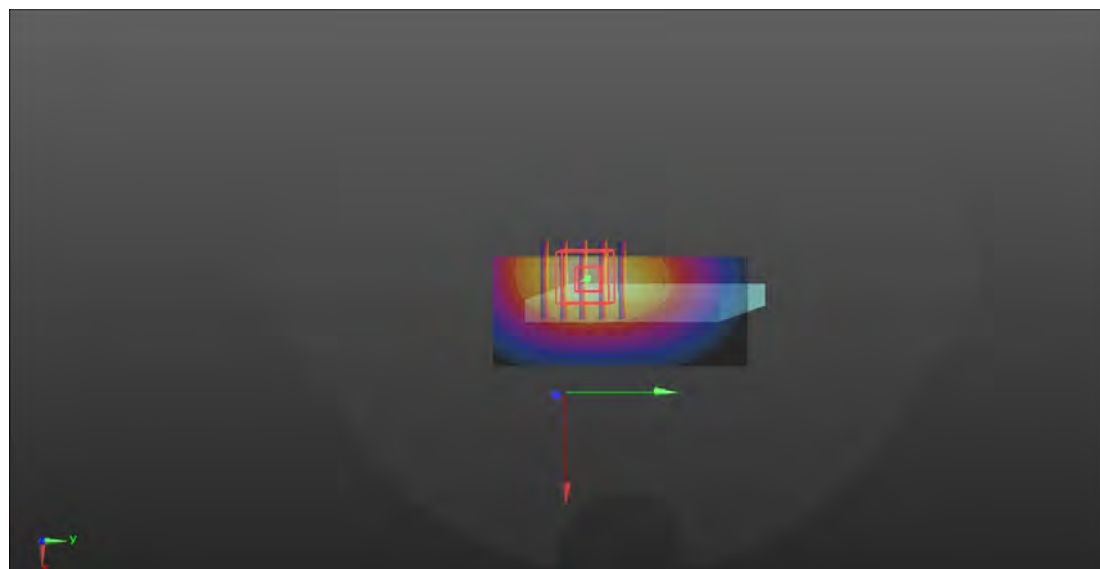
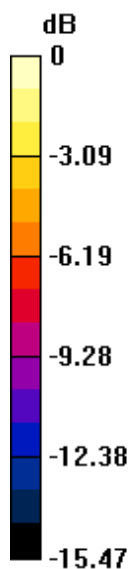
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.97 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 0.839 W/kg; SAR(10 g) = 0.591 W/kg**

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg

**P37 WCDMA V\_RMC12.2K\_Rear Face\_1cm\_Ch4182\_Ant2**

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835\_0825 Medium parameters used:  $f = 836.4$  MHz;  $\sigma = 0.932$  S/m;  $\epsilon_r = 42.948$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 836.4 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.367 W/kg

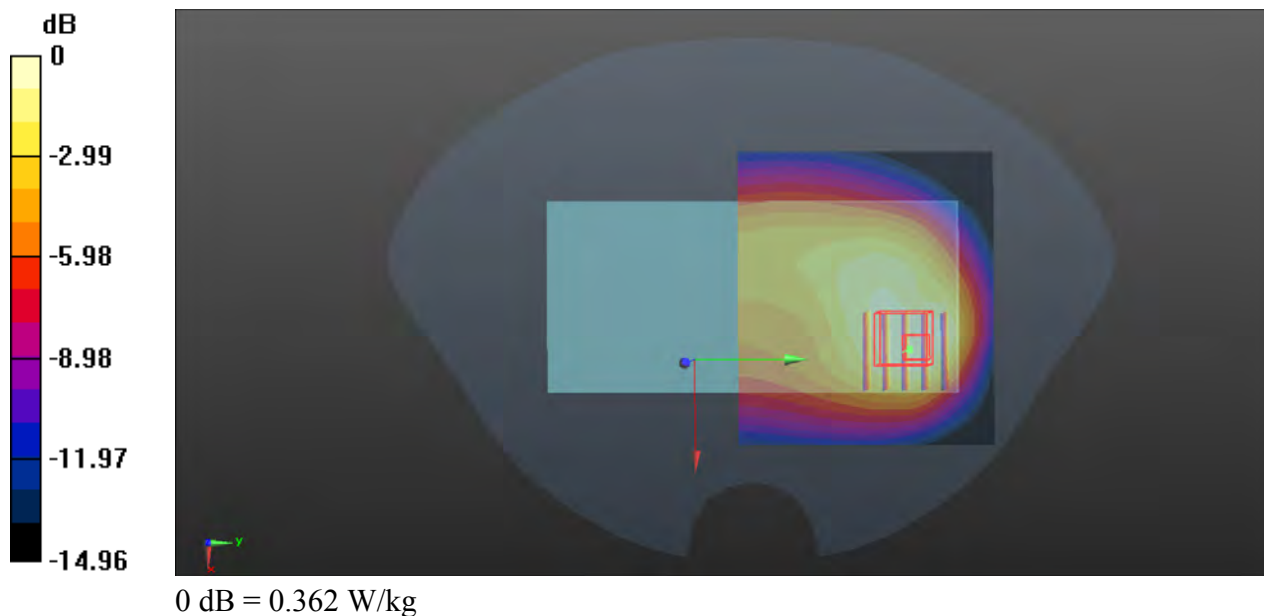
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.90 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.560 W/kg

**SAR(1 g) = 0.334 W/kg; SAR(10 g) = 0.212 W/kg**

Maximum value of SAR (measured) = 0.362 W/kg



**P38 LTE 2\_QPSK20M\_Top Side\_1cm\_Ch19100\_50RB\_OS0\_Ant2**

Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900\_0830 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.393$  S/m;  $\epsilon_r = 39.493$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.2°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.68, 8.68, 8.68) @ 1900 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (41x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.600 W/kg

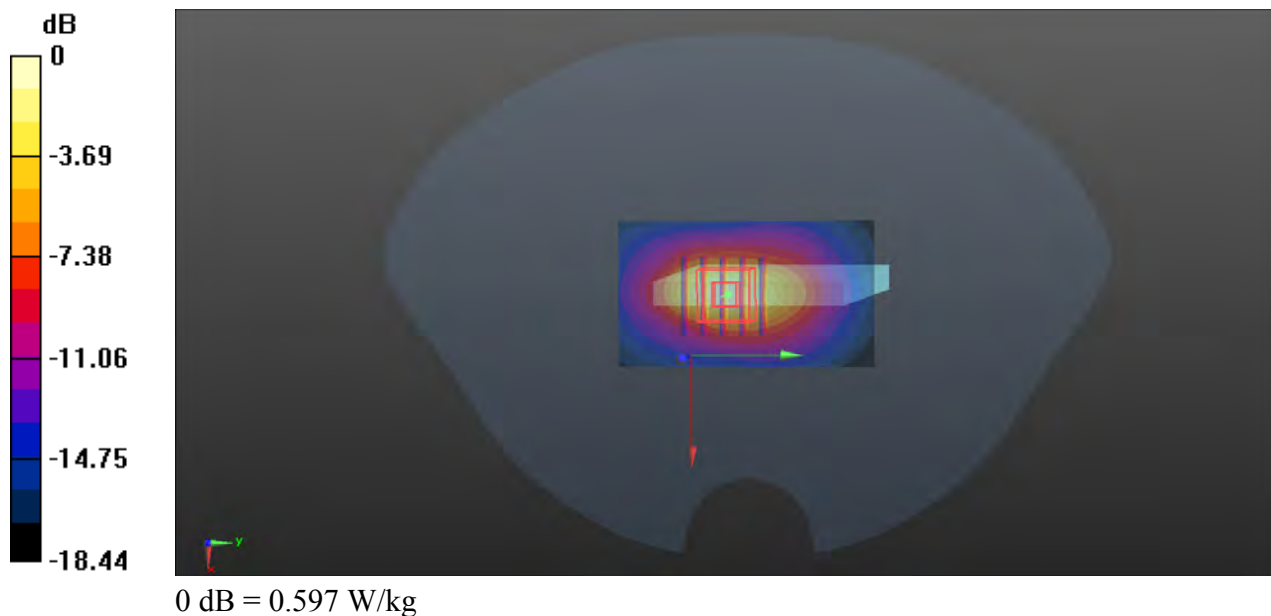
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.22 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.949 W/kg

**SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.252 W/kg**

Maximum value of SAR (measured) = 0.597 W/kg



**P39 LTE 7\_QPSK20M\_Bottom Side\_1cm\_Ch21350\_50RB\_OS25\_Ant1**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600\_0831 Medium parameters used:  $f = 2560$  MHz;  $\sigma = 2.007$  S/m;  $\epsilon_r = 38.187$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2560 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x91x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 1.02 W/kg

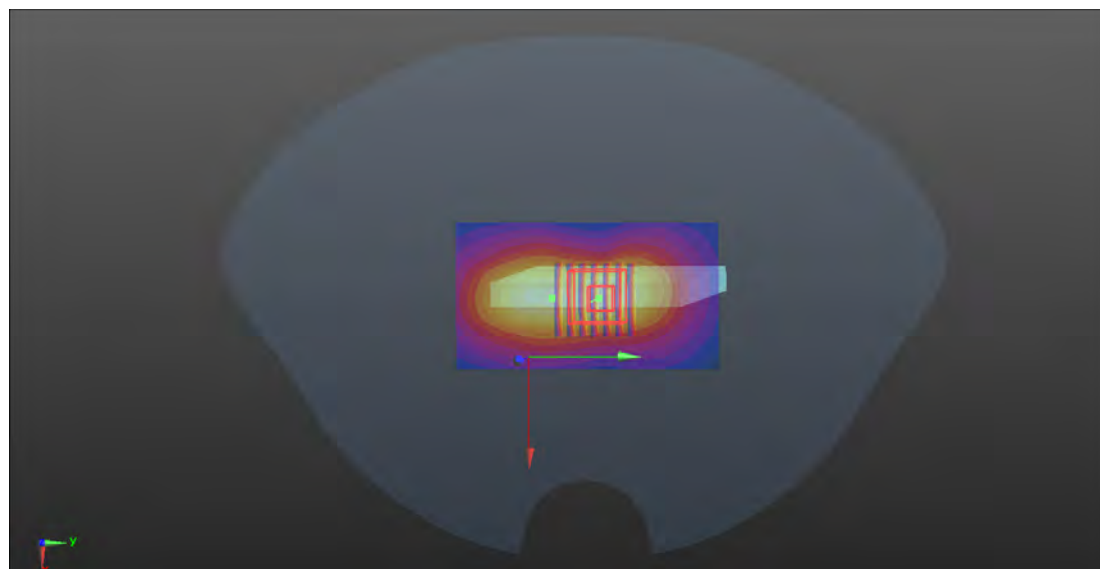
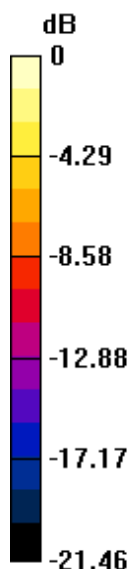
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 21.14 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.385 W/kg**

Maximum value of SAR (measured) = 0.994 W/kg



0 dB = 0.994 W/kg

**P40 LTE 13\_QPSK10M\_Rear Face\_1cm\_Ch23230\_1RB\_OS24\_Ant2**

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750\_0824 Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.925 \text{ S/m}$ ;  $\epsilon_r = 40.665$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature :  $23.4^\circ\text{C}$ ; Liquid Temperature :  $22.7^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(11.35, 11.35, 11.35) @ 782 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1)**: Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.344 \text{ W/kg}$

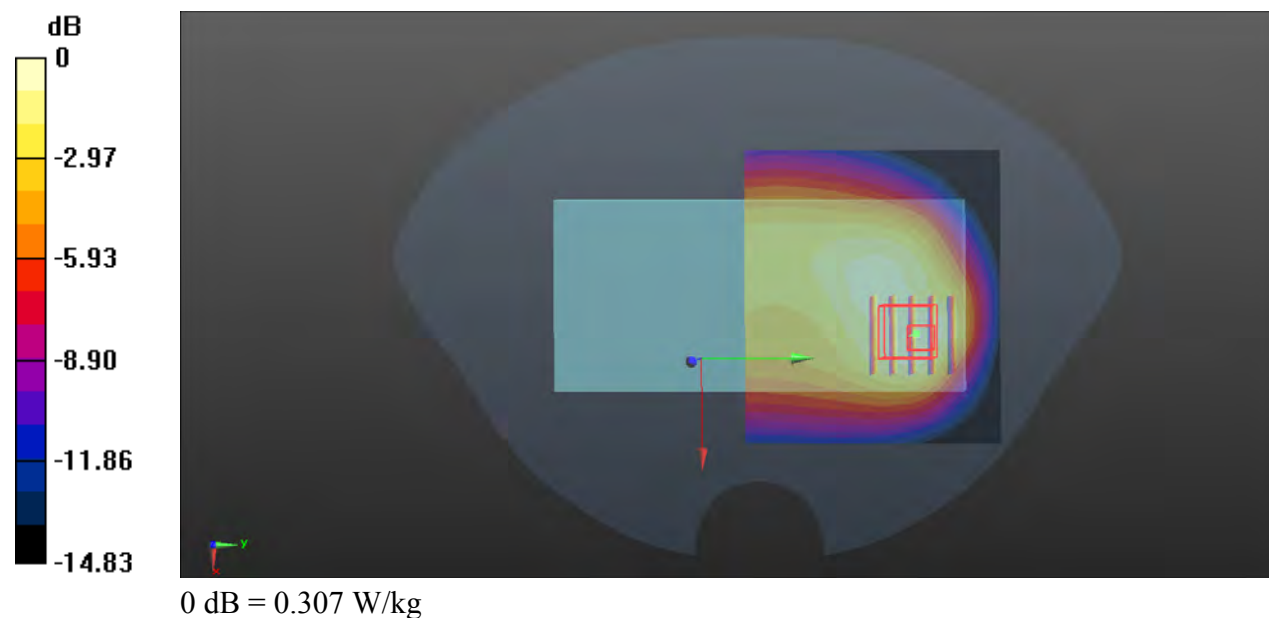
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $13.48 \text{ V/m}$ ; Power Drift =  $0.08 \text{ dB}$

Peak SAR (extrapolated) =  $0.525 \text{ W/kg}$

**SAR(1 g) =  $0.293 \text{ W/kg}$ ; SAR(10 g) =  $0.178 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.307 \text{ W/kg}$



**P41 LTE 26\_QPSK15M\_Rear Face\_1cm\_Ch26865\_1RB\_OS37\_Ant2**

Communication System: LTE; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835\_0826 Medium parameters used:  $f = 831.5$  MHz;  $\sigma = 0.928$  S/m;  $\epsilon_r = 43.004$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.3°C; Liquid Temperature : 22.4°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(10.88, 10.88, 10.88) @ 831.5 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.382 W/kg

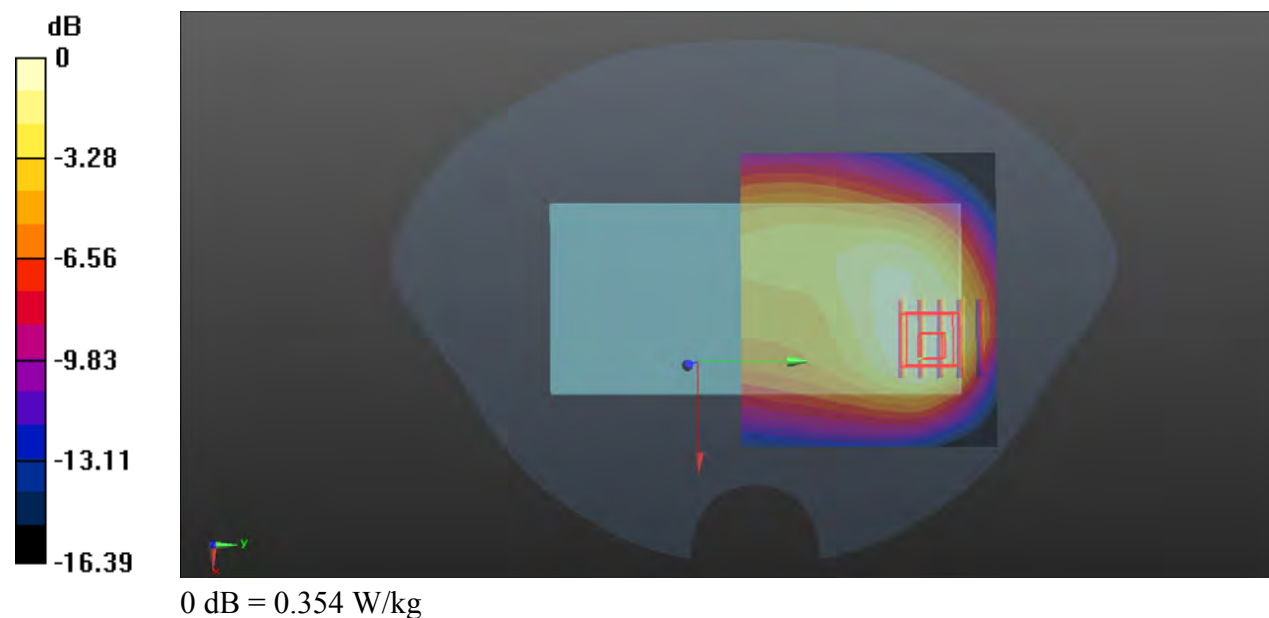
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.18 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.586 W/kg

**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.208 W/kg**

Maximum value of SAR (measured) = 0.354 W/kg



**P42 LTE 41\_QPSK20M\_Bottom Side\_1cm\_Ch40185\_1RB\_OS50\_Ant1**

Communication System: LTE TDD; Frequency: 2549.5 MHz; Duty Cycle: 1:1.59

Medium: HSL2600\_0901 Medium parameters used:  $f = 2549.5$  MHz;  $\sigma = 1.995$  S/m;  $\epsilon_r = 38.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.7°C; Liquid Temperature : 22.7°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2549.5 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.961 W/kg

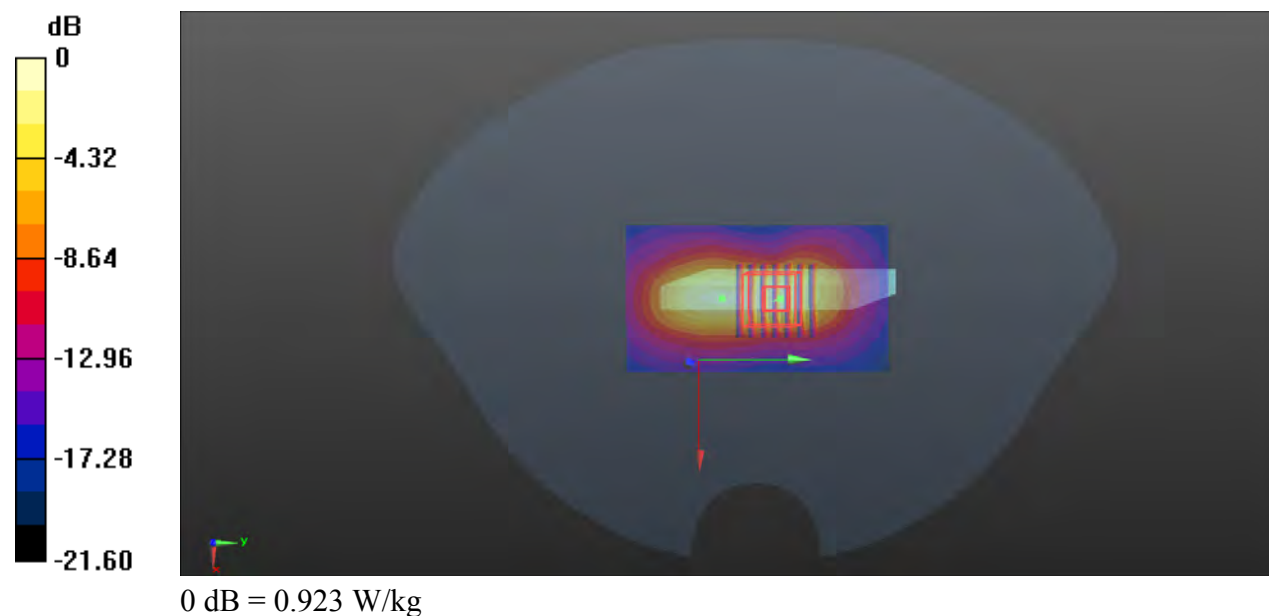
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.90 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.350 W/kg**

Maximum value of SAR (measured) = 0.923 W/kg



**P43 LTE 66\_QPSK20M\_Top Side\_1.9cm\_Ch132322\_1RB\_OS0\_Ant2**

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750\_0828 Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.422$  S/m;  $\epsilon_r = 40.98$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.5°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(9.05, 9.05, 9.05) @ 1745 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (31x71x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

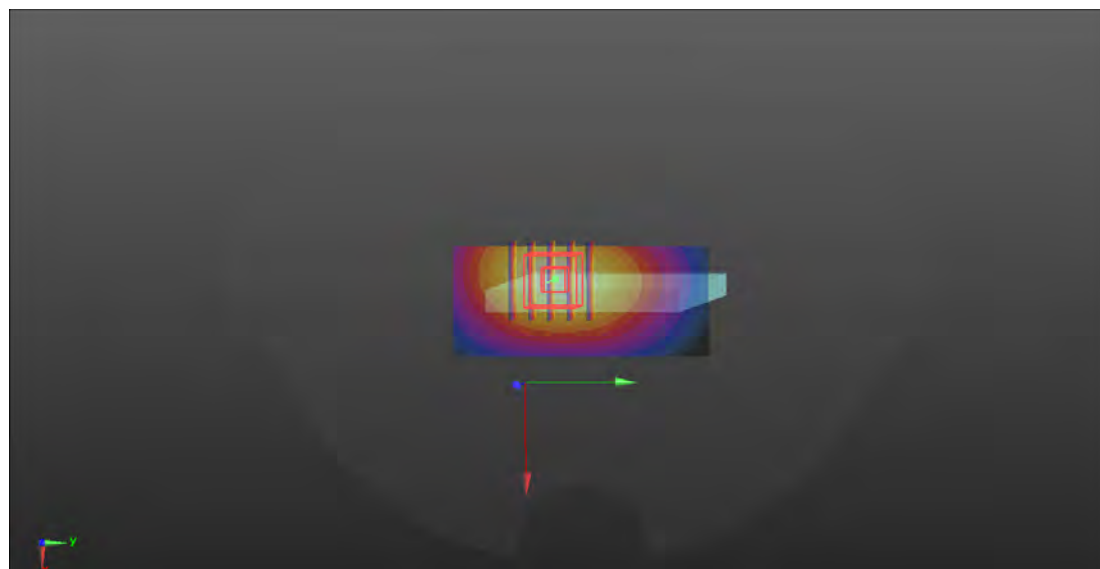
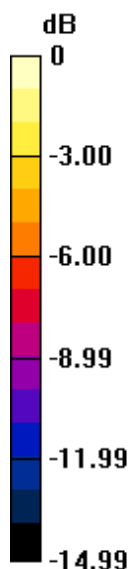
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.11 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.523 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg

**P44 WLAN2.4G\_802.11b\_Rear Face\_1cm\_Ch11\_Ant3**

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1.005

Medium: HSL2450\_0824 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 39.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2462 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.417 W/kg

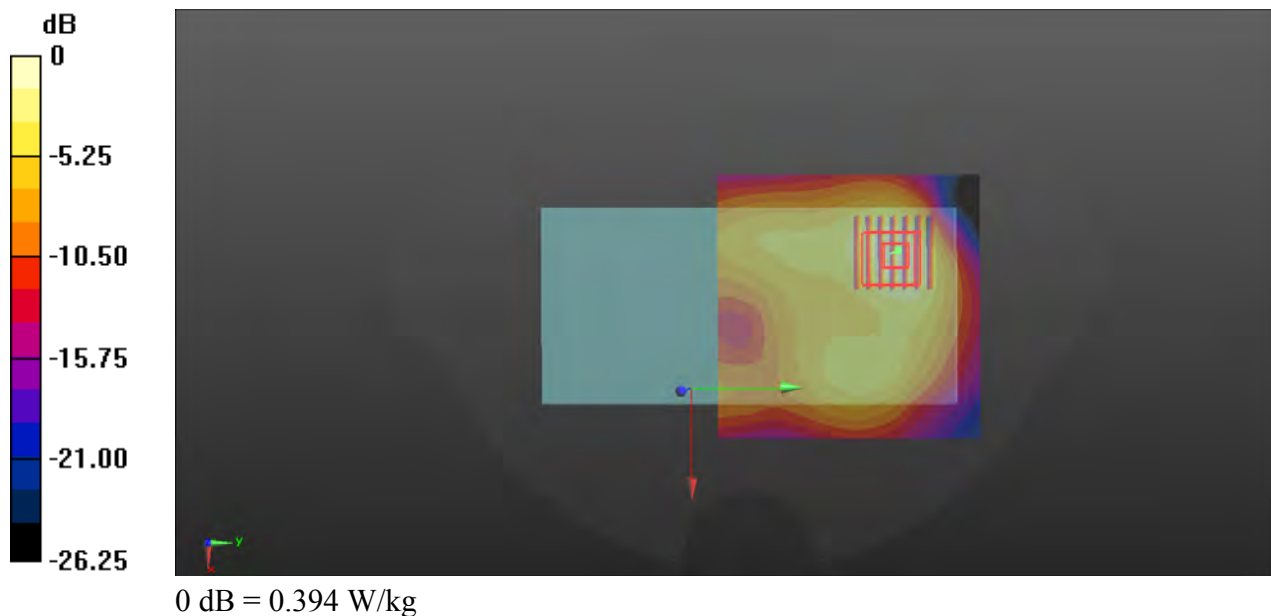
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.253 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.539 W/kg

**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.132 W/kg**

Maximum value of SAR (measured) = 0.394 W/kg



**P45 WLAN5G\_802.11n HT40\_Top Side\_1cm\_Ch38\_Ant3**

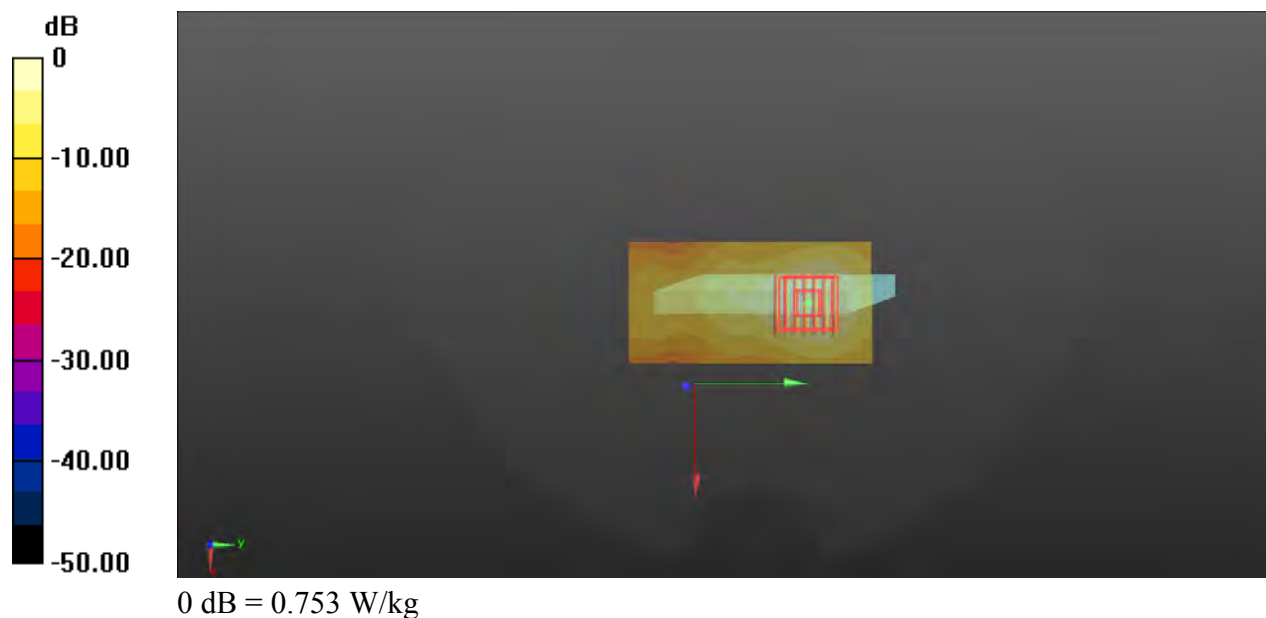
Communication System: 802.11n\_HT40; Frequency: 5190 MHz; Duty Cycle: 1:1.036  
Medium: HSL5G\_0827 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.555$  S/m;  $\epsilon_r = 36.462$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.2°C; Liquid Temperature : 22.6°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.7, 5.7, 5.7) @ 5190 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm  
Maximum value of SAR (interpolated) = 0.851 W/kg

- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm  
Reference Value = 6.539 V/m; Power Drift = -0.01 dB  
Peak SAR (extrapolated) = 1.38 W/kg  
**SAR(1 g) = 0.390 W/kg; SAR(10 g) = 0.137 W/kg**  
Maximum value of SAR (measured) = 0.753 W/kg



**P46 WLAN5G\_802.11acVHT80\_Rear Face\_1cm\_Ch155\_Ant3**

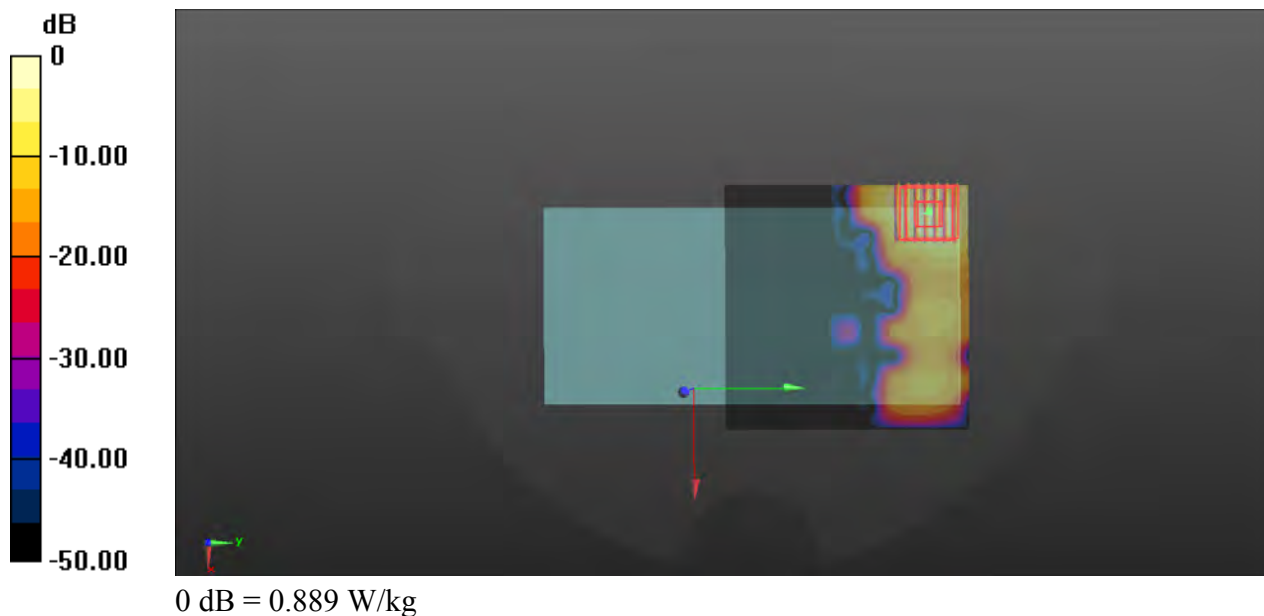
Communication System: 802.11ac\_VHT80; Frequency: 5775 MHz; Duty Cycle: 1:1.156  
Medium: HSL5G\_0826 Medium parameters used:  $f = 5775$  MHz;  $\sigma = 5.159$  S/m;  $\epsilon_r = 35.315$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Ambient Temperature : 23.3°C; Liquid Temperature : 22.3°C

**DASY5 Configuration:**

- Probe: EX3DV4 - SN7612; ConvF(5.21, 5.21, 5.21) @ 5775 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**- Area Scan (101x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm  
Maximum value of SAR (interpolated) = 0.878 W/kg

**- Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 0 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 1.77 W/kg  
**SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.150 W/kg**  
Maximum value of SAR (measured) = 0.889 W/kg



**P47 BT\_GFSK\_Rear Face\_1cm\_Ch39\_Ant3**

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.302

Medium: HSL2450\_0824 Medium parameters used:  $f = 2441$  MHz;  $\sigma = 1.801$  S/m;  $\epsilon_r = 39.356$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature : 23.6°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.11, 8.11, 8.11) @ 2441 MHz; Calibrated: 2023/02/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 2023/02/08
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x91x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.0644 W/kg

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

Reference Value = 1.279 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0750 W/kg

**SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.018 W/kg**

Maximum value of SAR (measured) = 0.0541 W/kg

