

## RF Exposure report



The following samples were submitted and identified on behalf of the client as:

**Product Name** Notebook Computer  
**Brand Name** HP  
**Model No.** HSN-I61C  
**Applicant** HP Inc.  
1501 Page Mill Road, Palo Alto CA 94304 USA  
**Standards** IEEE/ANSI C95.1-1992, IEEE 1528-2013  
**FCC ID** B94HNI61CPA  
**Date of EUT Receipt** Nov. 16, 2023  
**Date of Test(s)** Dec. 05, 2023 ~ Dec. 10, 2023  
**Date of Issue** Mar. 05, 2024

In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Signed on behalf of SGS**

| Clerk / Cindy Chou | PM / Afu Chen | Approved By / John Yeh |
|--------------------|---------------|------------------------|
|                    |               |                        |

Date: Mar. 05, 2024

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## Revision History

| Report Number    | Revision | Description                  | Issue Date    | Revised By | Remark |
|------------------|----------|------------------------------|---------------|------------|--------|
| TESA2311000705EN | 00       | Initial creation of document | Mar. 05, 2024 | Cindy Chou |        |
|                  |          |                              |               |            |        |
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|                  |          |                              |               |            |        |
|                  |          |                              |               |            |        |

**Note:**

1. The mark " \* " is the revised version of the report due to comments submitted by the certification.
2. Measurement results in the original test report TESA2311000704EN, 231128-04.TR02 and 231128-04.TR03 are partially leveraged in this test report.
3. The data for this test report WWAN leverages the measurements from the original test report TESA2311000704EN.
4. The data for this test report WLAN(2.4G / 5G) leverages the measurements from the original test report 231128-04.TR02.
5. The data for this test report WLAN(6E) leverages the measurements from the original test report 231128-04.TR03.

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## 1 GENERAL INFORMATION

### 1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB941225D01v03r01

KDB941225D05v02r05

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## 1.2 Description of EUT

|   |   |   |
|---|---|---|
| Product Name                                  | Notebook Computer                         |   |
| Brand Name                                    | HP  |   |
| Model No.                                     | HSN-I61C                                  |   |
| FCC ID  | B94HNI61CPA                               |   |
| Integrated WWAN Module                        | Brand Name: Fibocom<br>Model Name: FB520  |   |
| Integrated WLAN Module                        | Brand Name: Intel<br>Model Name: BE200NGW |   |
| Duty Cycle                                    | GSM<br>(DTM multi class B)                | 1/8.3   |
|   | GPRS<br>(support multi class 12 max)      | 1/2 (1Dn4UP)<br>1/2.76 (1Dn3UP)<br>1/4.1 (1Dn2UP)<br>1/8.3 (1Dn1UP) |
|   | EDGE<br>(support multi class 12 max)      | 1/2 (1Dn4UP)<br>1/2.76 (1Dn3UP)<br>1/4.1 (1Dn2UP)<br>1/8.3 (1Dn1UP) |
|   | CAT.M1 FDD                                | 0.3   |
| Supported radios (TX<br>Frequency Range, MHz) | GSM850                                    | 824-849   |
|   | GSM1900                                   | 1850-1910   |
|   | CAT.M1 FDD Band 2                         | 1850-1910   |
|   | CAT.M1 FDD Band 4                         | 1710-1755   |
|   | CAT.M1 FDD Band 5                         | 824-849   |
|   | CAT.M1 FDD Band 12                        | 699-716   |
|   | CAT.M1 FDD Band 13                        | 777-787   |
|   | CAT.M1 FDD Band 14                        | 788-798   |
|   | CAT.M1 FDD Band 25                        | 1850-1915   |
|   | CAT.M1 FDD Band 26                        | 814-849   |
|   | CAT.M1 FDD Band 66                        | 1710-1780   |
|   | CAT.M1 FDD Band 85                        | 698-716   |

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### 1.3 Maximum value

#### Vendor1

| Summary of Maximum SAR Value |                       |
|------------------------------|-----------------------|
| Mode                         | Highest SAR 1g (W/kg) |
| GPRS850 <1Dn4Up>             | 1.05                  |

#### Vendor2

| Summary of Maximum SAR Value |                       |
|------------------------------|-----------------------|
| Mode                         | Highest SAR 1g (W/kg) |
| GPRS850 <1Dn4Up>             | 1.19                  |

### 1.4 Antenna Information

#### Laptop mode\_WWAN

| Vendor         | Vendor1                     |         |         |         |         |         |           |           |           |           |
|----------------|-----------------------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Antenna        | Ant5                        |         |         |         |         |         |           |           |           |           |
| Part Number    | 6036B0346901(00-3302702850) |         |         |         |         |         |           |           |           |           |
| Frequency(MHz) | 85                          | 12      | 13      | 14      | 26      | 5       | 4         | 66        | 2         | 25        |
|                | 698~716                     | 699~716 | 777~787 | 788~798 | 814~849 | 824~849 | 1710~1755 | 1710~1780 | 1850~1910 | 1850~1915 |
| Gain (dBi)     | -0.31                       | -0.31   | -0.46   | -0.79   | -1.59   | -1.59   | 0.41      | 0.41      | 0.56      | 0.56      |

Note: Antenna information is provided by the applicant.

#### Tablet mode\_WWAN

| Vendor         | Vendor1                     |         |         |         |         |         |           |           |           |           |
|----------------|-----------------------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Antenna        | Ant5                        |         |         |         |         |         |           |           |           |           |
| Part Number    | 6036B0346901(00-3302702850) |         |         |         |         |         |           |           |           |           |
| Frequency(MHz) | 85                          | 12      | 13      | 14      | 26      | 5       | 4         | 66        | 2         | 25        |
|                | 698~716                     | 699~716 | 777~787 | 788~798 | 814~849 | 824~849 | 1710~1755 | 1710~1780 | 1850~1910 | 1850~1915 |
| Gain (dBi)     | -4.27                       | -4.27   | -4.51   | -4.98   | -5.88   | -5.92   | -1.71     | -1.71     | -1.74     | -1.74     |

Note: Antenna information is provided by the applicant.

#### Laptop mode\_WWAN

| Vendor         | Vendor2                    |         |         |         |         |         |           |           |           |           |
|----------------|----------------------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Antenna        | Ant5                       |         |         |         |         |         |           |           |           |           |
| Part Number    | 6036B0345901(81ELBA15.G02) |         |         |         |         |         |           |           |           |           |
| Frequency(MHz) | 85                         | 12      | 13      | 14      | 26      | 5       | 4         | 66        | 2         | 25        |
|                | 698~716                    | 699~716 | 777~787 | 788~798 | 814~849 | 824~849 | 1710~1755 | 1710~1780 | 1850~1910 | 1850~1915 |
| Gain (dBi)     | -1.56                      | -1.56   | -1.44   | -1.07   | -1.16   | -1.33   | -0.43     | -0.43     | 0.14      | 0.14      |

Note: Antenna information is provided by the applicant.

#### Tablet mode\_WWAN

| Vendor         | Vendor2                    |         |         |         |         |         |           |           |           |           |
|----------------|----------------------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Antenna        | Ant5                       |         |         |         |         |         |           |           |           |           |
| Part Number    | 6036B0345901(81ELBA15.G02) |         |         |         |         |         |           |           |           |           |
| Frequency(MHz) | 85                         | 12      | 13      | 14      | 26      | 5       | 4         | 66        | 2         | 25        |
|                | 698~716                    | 699~716 | 777~787 | 788~798 | 814~849 | 824~849 | 1710~1755 | 1710~1780 | 1850~1910 | 1850~1915 |
| Gain (dBi)     | -6.10                      | -6.10   | -6.15   | -6.59   | -5.12   | -5.12   | -1.36     | -1.36     | -0.34     | -0.34     |

Note: Antenna information is provided by the applicant.

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## 2 MEASUREMENT SYSTEM

### 2.1 Test Facility

| Laboratory  | Test Site Address  | Test Site Name | FCC Designation number | IC CAB identifier |
|---|--|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan. | SAR 2          | TW0029                 | TW3702            |
|   |  | SAR 6          |                        |                   |
|   |  | SAR 8          |                        |                   |
|   | No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan                           | SAR 1          | TW0028                 |                   |
|   |  | SAR 4          |                        |                   |
|   | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan       | SAR 3          | TW0027                 |                   |
|   |  | SAR 7          |                        |                   |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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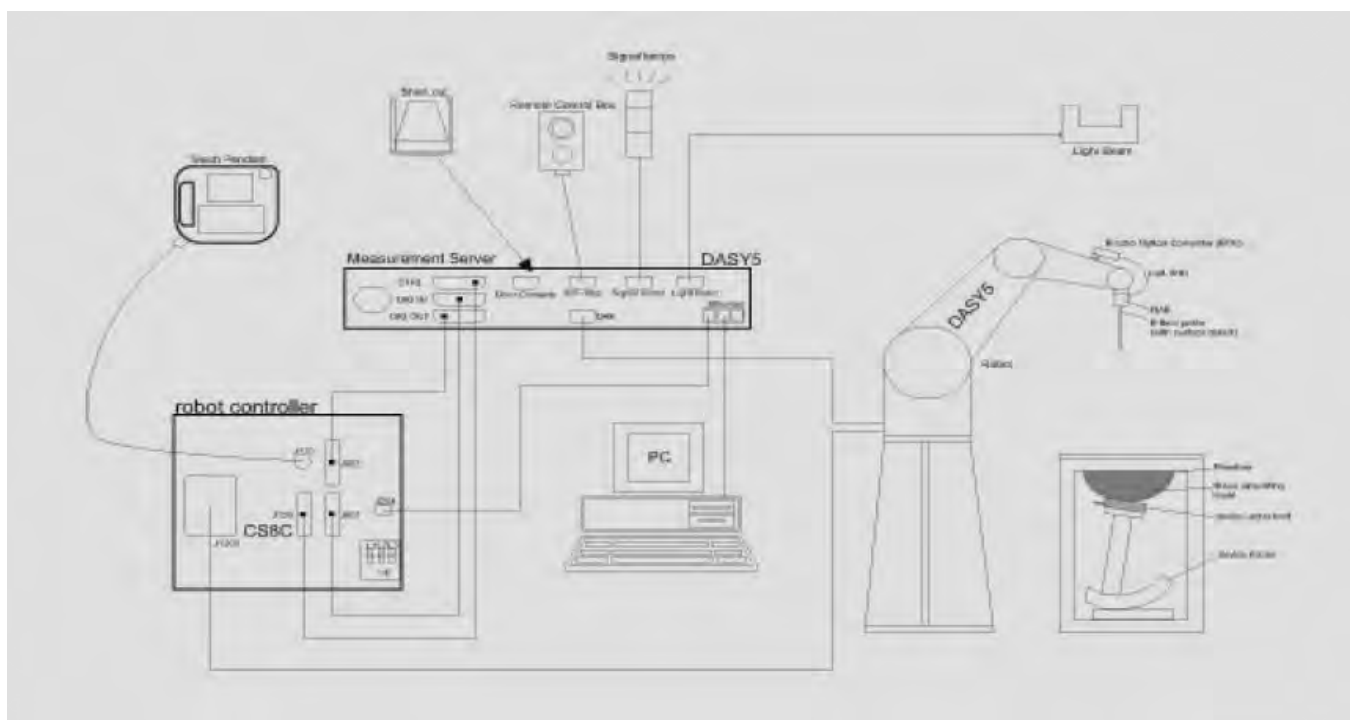
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## 2.2 SAR System

### Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.



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## EX3DV4 E-Field Probe

|               |  |   |  |
|---------------|--|---|--|
| Construction  | Symmetrical design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE)  |  |  |
| Calibration   | Basic Broad Band Calibration in air Conversion Factors (CF) for HSL<br>750/835/1750/1900 MHz Additional CF for other liquids and frequencies upon request  |   |  |
| Frequency     | 10 MHz to > 6 GHz  |   |  |
| Directivity   | ± 0.3 dB in HSL (rotation around probe axis)<br>± 0.5 dB in tissue material (rotation normal to probe axis)  |   |  |
| Dynamic Range | 10 µW/g to > 100 mW/g<br>Linearity: ± 0.2 dB (noise: typically < 1 µW/g)   |   |  |
| Dimensions    | Tip diameter: 2.5 mm   |   |  |
| Application   | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |   |  |

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## PHANTOM (ELI)

|                 |   |   |
|-----------------|---|---|
| Model           | ELI   |   |
| Construction    | The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles. |   |
| Shell Thickness | 2 ± 0.2 mm  |  |
| Filling Volume  | Approx. 30 liters   |   |
| Dimensions      | Major axis: 600 mm<br>Minor axis: 400 mm  |   |

## DEVICE HOLDER

|              |   |  |
|--------------|---|--|
| Construction | The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks. |  |
|              |   | Device Holder  |

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### 3 SAR SYSTEM VERIFICATION

#### 3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

#### 3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within  $\pm 5\%$  of the target values.

#### 3.3 Measurement results of Tissue Simulant Liquid

| Measured Frequency (MHz) | Target Dielectric Constant, $\epsilon_r$ | Target Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon_r$ | Measured Conductivity, $\sigma$ (S/m) | % dev $\epsilon_r$ | % dev $\sigma$ | Limit     | Measurement Date | Liquid Temp. (°C) | Ambient Temp (°C) |
|--------------------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|-----------|------------------|-------------------|-------------------|
| 700.5                    | 42.164                                   | 0.887                               | 43.812                                     | 0.860                                 | 3.91%              | -3.01%         | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 701.5                    | 42.159                                   | 0.887                               | 43.753                                     | 0.863                                 | 3.78%              | -2.68%         | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 707                      | 42.129                                   | 0.887                               | 43.685                                     | 0.865                                 | 3.69%              | -2.49%         | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 707.5                    | 42.127                                   | 0.887                               | 43.681                                     | 0.866                                 | 3.69%              | -2.39%         | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 713.5                    | 42.095                                   | 0.888                               | 43.636                                     | 0.869                                 | 3.66%              | -2.09%         | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 750                      | 41.900                                   | 0.890                               | 43.490                                     | 0.907                                 | 3.79%              | 1.91%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 779.5                    | 41.761                                   | 0.893                               | 43.395                                     | 0.911                                 | 3.91%              | 1.96%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 782                      | 41.749                                   | 0.894                               | 43.388                                     | 0.926                                 | 3.92%              | 3.61%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 784.5                    | 41.738                                   | 0.894                               | 43.379                                     | 0.928                                 | 3.93%              | 3.80%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 790.5                    | 41.709                                   | 0.895                               | 43.334                                     | 0.935                                 | 3.90%              | 4.50%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 793                      | 41.698                                   | 0.895                               | 43.315                                     | 0.937                                 | 3.88%              | 4.69%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 795.5                    | 41.686                                   | 0.895                               | 43.302                                     | 0.938                                 | 3.88%              | 4.76%          | $\pm 5\%$ | Dec. 06, 2023    | 21.8              | 22.1              |
| 700.5                    | 42.164                                   | 0.887                               | 43.752                                     | 0.865                                 | 3.77%              | -2.45%         | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 701.5                    | 42.159                                   | 0.887                               | 43.723                                     | 0.867                                 | 3.71%              | -2.23%         | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 707                      | 42.129                                   | 0.887                               | 43.675                                     | 0.872                                 | 3.67%              | -1.71%         | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 707.5                    | 42.127                                   | 0.887                               | 43.631                                     | 0.873                                 | 3.57%              | -1.60%         | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 713.5                    | 42.095                                   | 0.888                               | 43.566                                     | 0.875                                 | 3.50%              | -1.42%         | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 750                      | 41.900                                   | 0.890                               | 43.507                                     | 0.901                                 | 3.84%              | 1.24%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 779.5                    | 41.761                                   | 0.893                               | 43.325                                     | 0.908                                 | 3.74%              | 1.63%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 782                      | 41.749                                   | 0.894                               | 43.218                                     | 0.915                                 | 3.52%              | 2.38%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 784.5                    | 41.738                                   | 0.894                               | 43.189                                     | 0.918                                 | 3.48%              | 2.68%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 790.5                    | 41.709                                   | 0.895                               | 43.154                                     | 0.920                                 | 3.46%              | 2.82%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 793                      | 41.698                                   | 0.895                               | 43.125                                     | 0.922                                 | 3.42%              | 3.01%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |
| 795.5                    | 41.686                                   | 0.895                               | 43.112                                     | 0.926                                 | 3.42%              | 3.42%          | $\pm 5\%$ | Dec. 05, 2023    | 22.0              | 22.3              |

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|        |        |       |        |       |        |        |      |               |      |      |
|--------|--------|-------|--------|-------|--------|--------|------|---------------|------|------|
| 816.5  | 41.587 | 0.898 | 40.360 | 0.870 | -2.95% | -3.10% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 824.2  | 41.551 | 0.899 | 40.322 | 0.877 | -2.96% | -2.42% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 826.5  | 41.540 | 0.899 | 40.313 | 0.881 | -2.95% | -2.00% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 831.5  | 41.516 | 0.900 | 40.264 | 0.887 | -3.02% | -1.40% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 835    | 41.500 | 0.900 | 40.251 | 0.891 | -3.01% | -1.00% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 836.5  | 41.500 | 0.902 | 40.247 | 0.893 | -3.02% | -0.96% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 836.6  | 41.500 | 0.902 | 40.242 | 0.894 | -3.03% | -0.86% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 846.5  | 41.500 | 0.912 | 40.205 | 0.905 | -3.12% | -0.81% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 848.8  | 41.500 | 0.915 | 40.181 | 0.908 | -3.18% | -0.75% | ± 5% | Dec. 08, 2023 | 21.9 | 22.2 |
| 816.5  | 41.587 | 0.898 | 40.641 | 0.873 | -2.27% | -2.76% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 824.2  | 41.551 | 0.899 | 40.633 | 0.880 | -2.21% | -2.08% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 826.5  | 41.540 | 0.899 | 40.624 | 0.884 | -2.21% | -1.67% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 831.5  | 41.516 | 0.900 | 40.615 | 0.890 | -2.17% | -1.07% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 835    | 41.500 | 0.900 | 40.562 | 0.894 | -2.26% | -0.67% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 836.5  | 41.500 | 0.902 | 40.558 | 0.896 | -2.27% | -0.62% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 836.6  | 41.500 | 0.902 | 40.543 | 0.897 | -2.31% | -0.52% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 846.5  | 41.500 | 0.912 | 40.536 | 0.908 | -2.32% | -0.48% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 848.8  | 41.500 | 0.915 | 40.512 | 0.911 | -2.38% | -0.42% | ± 5% | Dec. 07, 2023 | 21.7 | 21.9 |
| 1712.5 | 40.125 | 1.350 | 38.723 | 1.290 | -3.49% | -4.44% | ± 5% | Dec. 09, 2023 | 22.2 | 22.5 |
| 1732.5 | 40.096 | 1.361 | 38.703 | 1.305 | -3.48% | -4.14% | ± 5% | Dec. 09, 2023 | 22.2 | 22.5 |
| 1745   | 40.079 | 1.369 | 38.695 | 1.313 | -3.45% | -4.06% | ± 5% | Dec. 09, 2023 | 22.2 | 22.5 |
| 1750   | 40.071 | 1.371 | 38.667 | 1.318 | -3.50% | -3.90% | ± 5% | Dec. 09, 2023 | 22.2 | 22.5 |
| 1752.5 | 40.068 | 1.373 | 38.656 | 1.320 | -3.52% | -3.85% | ± 5% | Dec. 09, 2023 | 22.2 | 22.5 |
| 1777.5 | 40.032 | 1.387 | 38.604 | 1.340 | -3.57% | -3.40% | ± 5% | Dec. 09, 2023 | 22.2 | 22.5 |
| 1850.2 | 40.000 | 1.400 | 38.538 | 1.362 | -3.66% | -2.71% | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1852.5 | 40.000 | 1.400 | 38.502 | 1.389 | -3.74% | -0.79% | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1880   | 40.000 | 1.400 | 38.469 | 1.422 | -3.83% | 1.57%  | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1882.5 | 40.000 | 1.400 | 38.465 | 1.421 | -3.84% | 1.50%  | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1900   | 40.000 | 1.400 | 38.455 | 1.426 | -3.86% | 1.86%  | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1907.5 | 40.000 | 1.400 | 38.454 | 1.441 | -3.87% | 2.93%  | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1909.8 | 40.000 | 1.400 | 38.450 | 1.442 | -3.87% | 3.00%  | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |
| 1912.5 | 40.000 | 1.400 | 38.449 | 1.444 | -3.88% | 3.14%  | ± 5% | Dec. 10, 2023 | 21.7 | 22.0 |

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### 3.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

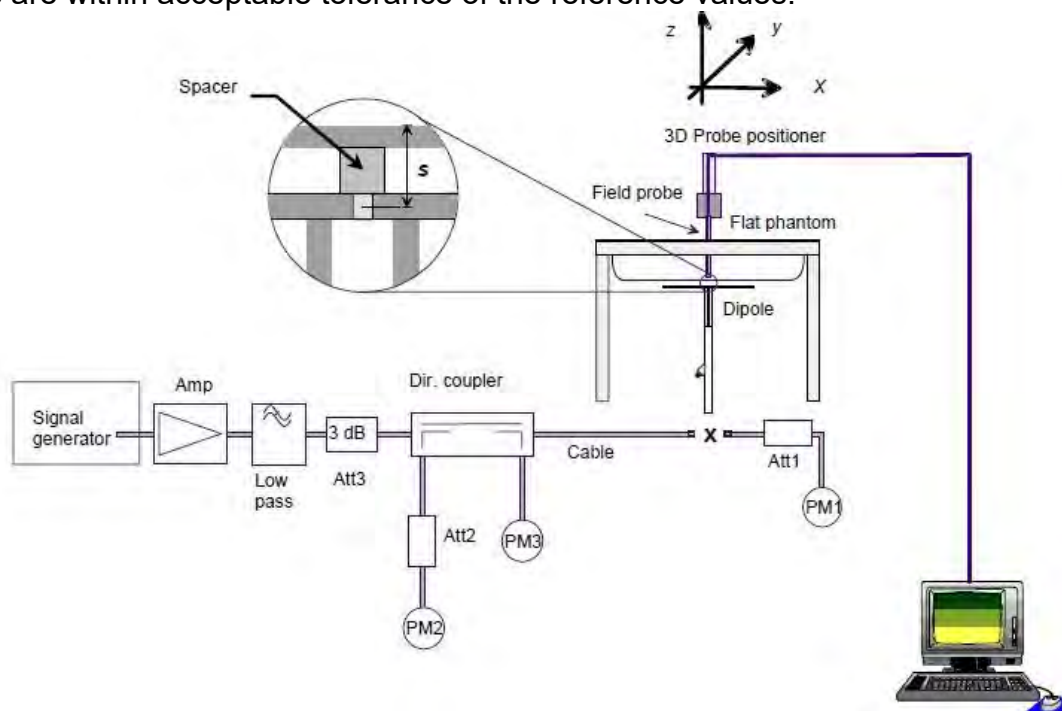
| Broad-band head tissue simulating liquids | SPEAG Product   | Frequency range (MHz) | Main Ingredients |
|---|-----------------|-----------------------|------------------|
|   | HBBL600-10000V6 | 600 - 10000           | Water, Oil       |

### 3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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### 3.6 System check results

| Validation Kit | S/N   | Frequency (MHz) | 1W Target 1g-SAR (W/kg) | pin=250mW Measured 1g-SAR (W/kg) | Normalized to 1W 1g-SAR (W/kg) | Deviation (%) | Limit | Measurement Date |
|----------------|-------|-----------------|-------------------------|----------------------------------|--------------------------------|---------------|-------|------------------|
| D750V3         | 1015  | 750             | 8.63                    | 2.13                             | 8.52                           | -1.27         | ± 10% | Dec.05,2023      |
| D750V3         | 1015  | 750             | 8.63                    | 2.07                             | 8.28                           | -4.06         | ± 10% | Dec.06,2023      |
| D835V2         | 4d063 | 835             | 9.53                    | 2.38                             | 9.52                           | -0.10         | ± 10% | Dec.07,2023      |
| D835V2         | 4d063 | 835             | 9.53                    | 2.34                             | 9.36                           | -1.78         | ± 10% | Dec.08,2023      |
| D1750V2        | 1008  | 1750            | 36.4                    | 9.02                             | 36.08                          | -0.88         | ± 10% | Dec.09,2023      |
| D1900V2        | 5d056 | 1900            | 40.5                    | 9.84                             | 39.36                          | -2.81         | ± 10% | Dec.10,2023      |

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## 4 TEST CONFIGURATIONS

### 4.1 Test Environment

Ambient Temperature:  $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid:  $22 \pm 2^\circ \text{C}$

### 4.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8 \text{ W/kg}$ , when the transmission band is  $\leq 100 \text{ MHz}$ .
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8 \text{ W/kg}$ , repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45 \text{ W/kg}$  ( $\sim 10\%$  from the 1-g SAR limit).
- **General:** Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be
  - a) For test separation distances  $\leq 50 \text{ mm}$ , the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$
  - b) The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  where f is 13.56MHz
  - c) The power threshold in 4.3.1 b) is  $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)}] + [( \text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$ , for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.
  - d) Power allowed at numeric threshold for 50 mm in 4.3.1 a) is  $[3/\sqrt{f(\text{GHz})}] \cdot (\text{test separation distance})$
 Hence, SAR test exclusion threshold is calculated in reverse sequence:
  - d) :  $[3/\sqrt{0.1}] \cdot 50 = 474.3416 \text{ mW}$
  - c) :  $474.3416 + (50-50) \cdot (100/150) = 474.3416 \text{ mW}$
  - b) :  $474.3416 \cdot [1 + \log(100/13.56)] = 885.9470 \text{ mW}$
  - a) :  $885.9470 \cdot 0.5 = 442.974 \text{ mW}$

Step c:

| Frequency (MHz) | E-FIELD dBuV/m | Test Distance (m) | EIRP (dBm) | EIRP (mW) | Threshold (mW) |
|-----------------|----------------|-------------------|------------|-----------|----------------|
| 13.56           | 76.18          | 3                 | -18.978    | 0.013     | 442.974        |

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Note:

$$\text{EIRP (dBm)} = (\text{E-FIELD (dBuV/m)} + 20 \log(d(\text{m})) - 104.7)$$

$$\text{EIRP (mW)} = (10^{(\text{EIRP (dBm)} / 10)})$$

Therefore, NFC is SAR excluded.

**GSM:** SAR test reduction for GPRS/EDGE mode is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.

**LTE:** LTE modes test according to **KDB 941225D05v02r05**.

a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.

- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

- When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.

- When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation

- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq 0.8$  W/kg.

- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for

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testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

e. Per Section 5.3, other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is  $> \frac{1}{2}$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

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#### 4.3 Test position

##### Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

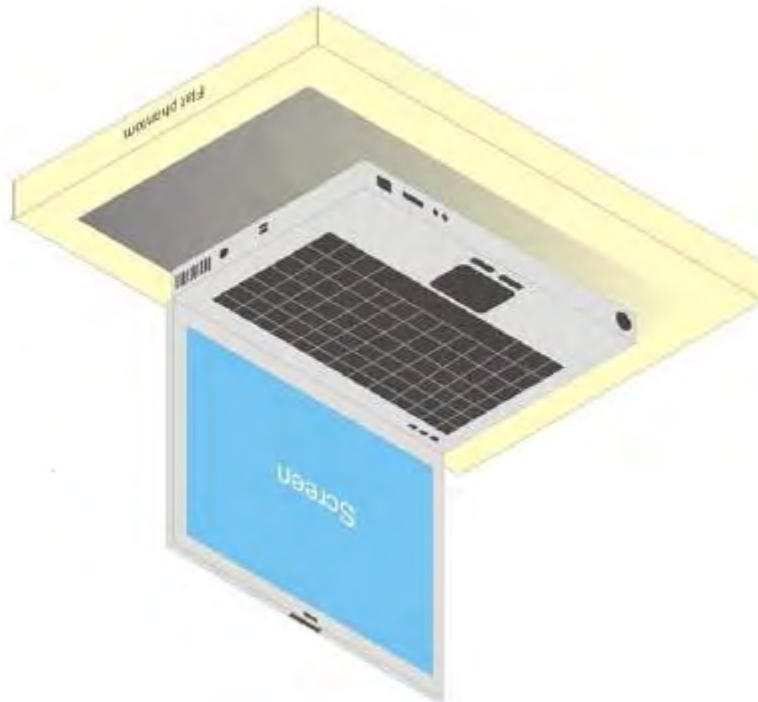


Illustration for Laptop Setup

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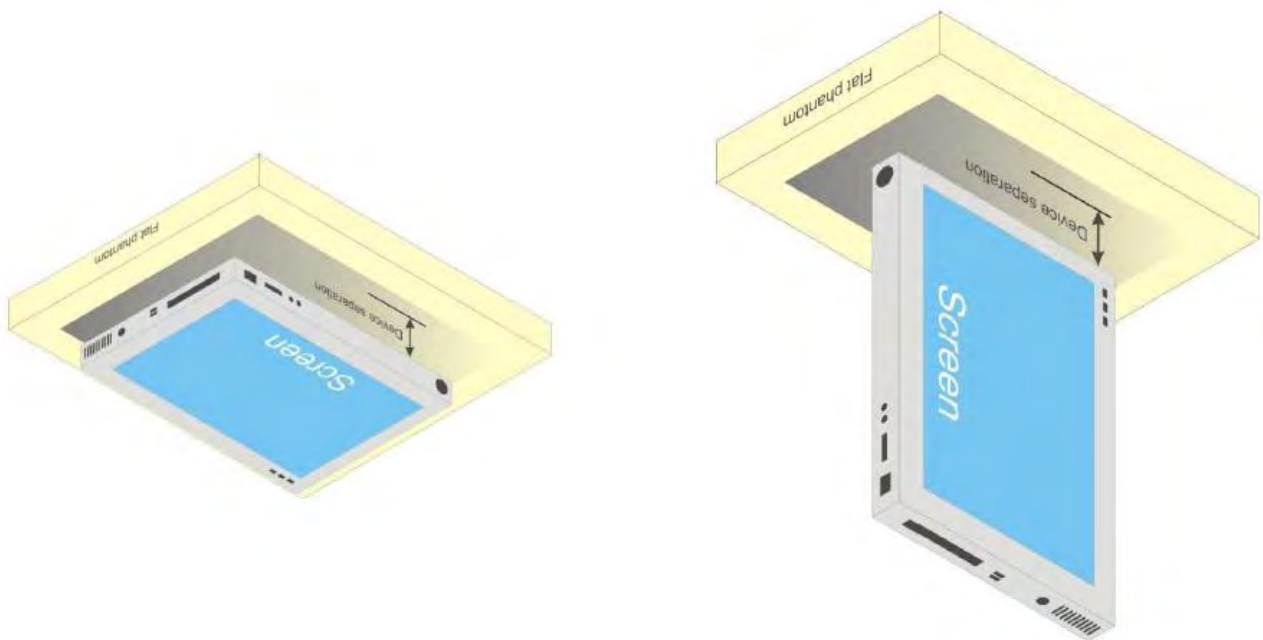
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**Tablet mode SAR test position (0mm)**

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.



**Illustration for Tablet Setup**

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#### 4.4 Power verification of device mode

The device is a convertible laptop computer with predefined single fixed power to each device modes. For the device modes verification, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

##### Results and conclusion

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

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## Device mode verification by power measurement

|      | Operation mode | Lid angle | GPS-B1 (Tx/Up) |       | GPS-B2 (Tx/Up) |       | Cell-M1 Band 2 |       | Cell-M1 Band 4 |       | Cell-M1 Band 6 |       | Cell-M1 Band 12 |       | Cell-M1 Band 13 |     | Cell-M1 Band 14 |     | Cell-M1 Band 25 |     | Cell-M1 Band 26 |     | Cell-M1 Band 66 |     | Cell-M1 Band 85 |     |
|------|----------------|-----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|-----------------|-------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|
|      |                |           | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a             | n/a   | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a |
| WWAN | Lid close      | 10°       | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a             | n/a   | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a |
|      |                | 20°       | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a             | n/a   | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a |
|      |                | 30°       | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a             | n/a   | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a |
|      |                | 40°       | 27.67          | 24.80 | 20.16          | 20.37 | 20.09          | 19.91 | 19.97          | 20.29 | 20.48          | 19.77 | 20.21           | 20.04 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 35°       | 27.52          | 24.63 | 20.05          | 20.35 | 20.07          | 20.03 | 20.08          | 20.21 | 20.99          | 19.67 | 20.27           | 20.14 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | Lid open       | 31°       | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a            | n/a   | n/a             | n/a   | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a | n/a             | n/a |
|      |                | 31°       | 27.63          | 24.77 | 20.04          | 20.46 | 19.94          | 20.02 | 20.03          | 20.13 | 20.57          | 19.69 | 20.35           | 20.12 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 32°       | 27.78          | 24.65 | 20.12          | 20.49 | 19.93          | 19.99 | 20.11          | 20.24 | 20.46          | 19.72 | 20.46           | 20.18 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 33°       | 27.76          | 24.72 | 20.29          | 20.42 | 19.91          | 19.98 | 20.10          | 20.15 | 20.47          | 19.75 | 20.29           | 20.19 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 34°       | 27.72          | 24.64 | 20.12          | 20.37 | 20.00          | 20.09 | 19.99          | 20.11 | 20.53          | 19.68 | 20.33           | 20.01 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
| WWAN | Laptop         | 35°       | 27.73          | 24.65 | 20.19          | 20.44 | 19.91          | 20.02 | 20.14          | 20.25 | 20.46          | 19.63 | 20.31           | 20.02 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 36°       | 27.73          | 24.80 | 20.02          | 20.39 | 20.01          | 19.98 | 20.00          | 20.10 | 20.50          | 19.73 | 20.32           | 20.04 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 37°       | 27.69          | 24.78 | 20.19          | 20.39 | 20.07          | 20.02 | 20.14          | 20.12 | 20.56          | 19.72 | 20.36           | 20.03 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 38°       | 27.75          | 24.73 | 20.11          | 20.34 | 20.04          | 19.97 | 20.05          | 20.17 | 20.56          | 19.69 | 20.31           | 20.04 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 39°       | 27.61          | 24.62 | 20.16          | 20.44 | 19.92          | 20.00 | 19.98          | 20.27 | 20.44          | 19.76 | 20.22           | 20.17 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | Flat           | 40°       | 27.61          | 24.70 | 20.02          | 20.47 | 19.99          | 19.94 | 20.10          | 20.19 | 20.44          | 19.61 | 20.32           | 20.14 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 50°       | 27.85          | 24.64 | 20.15          | 20.40 | 20.07          | 20.02 | 20.03          | 20.11 | 20.41          | 19.71 | 20.38           | 20.20 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 60°       | 27.89          | 24.65 | 20.10          | 20.39 | 19.97          | 20.07 | 19.97          | 20.12 | 20.59          | 19.65 | 20.25           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 70°       | 27.71          | 24.69 | 20.16          | 20.31 | 19.96          | 19.91 | 20.07          | 20.16 | 20.55          | 19.70 | 20.39           | 20.14 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 80°       | 27.85          | 24.61 | 20.09          | 20.39 | 19.99          | 20.05 | 20.05          | 20.21 | 20.48          | 19.64 | 20.40           | 20.02 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
| WWAN | Laptop         | 90°       | 27.88          | 24.75 | 20.10          | 20.31 | 20.09          | 20.06 | 20.09          | 20.29 | 20.51          | 19.73 | 20.35           | 20.16 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 100°      | 27.89          | 24.78 | 20.13          | 20.40 | 20.07          | 20.02 | 20.02          | 20.29 | 20.51          | 19.73 | 20.40           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 110°      | 27.80          | 24.73 | 20.05          | 20.38 | 20.00          | 20.08 | 20.11          | 20.14 | 20.45          | 19.78 | 20.25           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 120°      | 27.77          | 24.71 | 20.07          | 20.31 | 19.91          | 20.05 | 20.11          | 20.29 | 20.45          | 19.75 | 20.36           | 20.17 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 130°      | 24.76          | 21.74 | 11.13          | 12.31 | 14.86          | 12.34 | 13.58          | 12.00 | 15.08          | 12.34 | 19.63           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | Flat           | 120°      | 27.62          | 24.79 | 20.03          | 20.31 | 19.98          | 19.94 | 20.10          | 20.18 | 20.42          | 19.66 | 20.26           | 20.08 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 127°      | 27.75          | 24.66 | 20.17          | 20.37 | 19.92          | 19.98 | 20.10          | 20.22 | 20.60          | 20.39 | 20.69           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 128°      | 27.79          | 24.68 | 20.04          | 20.42 | 19.96          | 19.95 | 20.10          | 20.26 | 20.51          | 19.67 | 20.30           | 20.11 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 129°      | 27.73          | 24.64 | 20.16          | 20.40 | 19.99          | 20.05 | 20.10          | 20.22 | 20.51          | 19.79 | 20.24           | 20.06 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 130°      | 24.81          | 21.88 | 11.30          | 12.39 | 14.82          | 12.39 | 13.55          | 12.05 | 15.15          | 12.27 | 19.82           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
| WWAN | Laptop         | 131°      | 24.80          | 21.80 | 11.48          | 12.47 | 14.84          | 12.32 | 13.60          | 11.69 | 15.08          | 12.24 | 19.81           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 132°      | 24.82          | 21.83 | 11.28          | 12.48 | 14.85          | 12.34 | 13.61          | 11.70 | 15.04          | 12.23 | 19.85           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 133°      | 24.71          | 21.80 | 11.24          | 12.39 | 14.96          | 12.42 | 13.66          | 11.70 | 15.12          | 15.21 | 19.81           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 134°      | 24.71          | 21.80 | 11.16          | 12.44 | 15.00          | 12.38 | 13.61          | 12.02 | 15.07          | 12.21 | 19.81           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 135°      | 24.76          | 21.76 | 11.21          | 12.42 | 14.91          | 12.41 | 13.62          | 12.05 | 15.09          | 12.33 | 19.87           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | Flat           | 140°      | 24.83          | 21.83 | 11.28          | 12.37 | 14.84          | 12.45 | 13.53          | 13.51 | 12.04          | 15.17 | 12.36           | 19.68 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 150°      | 24.87          | 21.74 | 11.12          | 12.44 | 14.82          | 12.46 | 13.53          | 13.65 | 11.97          | 15.07 | 12.36           | 19.67 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 160°      | 24.76          | 21.78 | 11.25          | 12.48 | 14.95          | 12.39 | 13.65          | 13.64 | 12.03          | 15.32 | 12.32           | 19.84 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 170°      | 24.76          | 21.84 | 11.11          | 12.35 | 14.99          | 12.39 | 13.52          | 13.64 | 12.09          | 15.13 | 12.21           | 19.86 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 180°      | 24.75          | 21.86 | 11.16          | 12.39 | 14.88          | 12.47 | 13.67          | 13.59 | 12.11          | 15.24 | 12.21           | 19.87 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
| WWAN | Flat           | 190°      | 24.79          | 21.84 | 11.27          | 12.47 | 14.81          | 12.49 | 13.53          | 13.62 | 12.04          | 15.14 | 12.31           | 19.89 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 200°      | 24.88          | 21.85 | 11.24          | 12.36 | 14.94          | 12.48 | 13.63          | 13.69 | 12.06          | 15.06 | 12.34           | 19.84 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 210°      | 27.89          | 24.80 | 20.03          | 20.34 | 19.96          | 20.10 | 20.13          | 20.15 | 20.57          | 19.67 | 20.25           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 220°      | 24.80          | 21.89 | 11.28          | 12.39 | 14.97          | 12.34 | 13.55          | 13.51 | 12.10          | 15.17 | 12.40           | 19.84 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 230°      | 24.71          | 21.78 | 11.26          | 12.36 | 14.92          | 12.38 | 13.59          | 13.55 | 11.99          | 15.09 | 12.40           | 19.86 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | Laptop         | 204°      | 27.75          | 24.64 | 20.02          | 20.38 | 20.10          | 20.02 | 20.03          | 20.22 | 20.45          | 19.69 | 20.40           | 20.11 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 210°      | 27.77          | 24.74 | 20.03          | 20.45 | 19.93          | 20.01 | 20.09          | 20.25 | 20.41          | 19.65 | 20.36           | 20.06 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 215°      | 27.89          | 24.69 | 20.17          | 20.41 | 19.95          | 20.07 | 20.05          | 20.27 | 20.49          | 19.67 | 20.27           | 20.19 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 220°      | 27.76          | 24.72 | 20.17          | 20.33 | 19.91          | 20.05 | 20.13          | 20.50 | 19.67          | 20.23 | 20.16           |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 230°      | 27.80          | 24.69 | 20.12          | 20.46 | 19.93          | 19.97 | 20.10          | 20.13 | 20.57          | 19.68 | 20.23           | 20.05 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
| WWAN | Flat           | 240°      | 27.84          | 24.72 | 20.11          | 20.36 | 20.08          | 20.11 | 20.15          | 20.25 | 20.46          | 19.73 | 20.33           | 20.02 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 250°      | 27.71          | 24.68 | 20.05          | 20.35 | 20.03          | 20.09 | 20.14          | 20.28 | 20.42          | 19.62 | 20.29           | 20.02 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 260°      | 27.81          | 24.69 | 20.07          | 20.49 | 19.94          | 20.10 | 20.15          | 20.29 | 20.41          | 19.80 | 20.38           | 20.07 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 270°      | 27.79          | 24.76 | 20.07          | 20.43 | 19.92          | 20.08 | 20.01          | 20.23 | 20.48          | 19.61 | 20.34           | 20.14 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 280°      | 27.89          | 24.67 | 20.09          | 20.37 | 19.94          | 20.07 | 20.07          | 20.27 | 20.46          | 19.63 | 20.37           | 20.06 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      | Laptop         | 290°      | 27.83          | 24.74 | 20.06          | 20.49 | 19.97          | 20.02 | 20.02          | 20.19 | 20.52          | 19.78 | 20.37           | 20.16 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 300°      | 27.87          | 24.66 | 20.04          | 20.35 | 19.93          | 20.07 | 19.97          | 20.24 | 20.54          | 19.74 | 20.29           | 20.20 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 310°      | 27.79          | 24.64 | 20.05          | 20.36 | 19.94          | 20.06 | 19.98          | 20.24 | 20.56          | 19.68 | 20.31           | 20.05 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 320°      | 27.81          | 24.75 | 20.17          | 20.34 | 19.98          | 20.04 | 19.94          | 20.12 | 20.41          | 19.67 | 20.34           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 330°      | 27.74          | 24.80 | 20.18          | 20.39 | 20.00          | 20.07 | 20.09          | 20.26 | 20.49          | 19.69 | 20.23           | 20.18 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
| WWAN | Flat           | 340°      | 24.74          | 21.84 | 11.22          | 12.41 | 14.87          | 12.41 | 13.51          | 13.51 | 12.04          | 15.23 | 12.26           | 19.83 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 340°      | 27.81          | 24.68 | 20.09          | 20.49 | 19.95          | 20.06 | 19.98          | 20.25 | 20.49          | 19.62 | 20.22           | 20.09 |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |
|      |                | 341°      | 24.81          | 21.71 |                |       |                |       |                |       |                |       |                 |       |                 |     |                 |     |                 |     |                 |     |                 |     |                 |     |

|      |                         |      |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| WWAN | Flat                    | 190° | 24.85 | 21.80 | 11.23 | 12.43 | 14.92 | 12.31 | 13.58 | 13.60 | 12.02 | 15.18 | 12.24 | 19.08 |
|      |                         | 200° | 24.73 | 21.71 | 11.21 | 12.46 | 14.85 | 12.37 | 13.55 | 13.66 | 12.14 | 15.06 | 12.25 | 18.95 |
|      | Tent (Not Horizontal)   | 205° | 24.73 | 21.79 | 11.20 | 12.50 | 14.81 | 12.43 | 13.58 | 13.54 | 12.03 | 15.16 | 12.29 | 19.01 |
|      |                         | 205° | 24.76 | 21.89 | 11.12 | 12.35 | 14.88 | 12.50 | 13.57 | 13.67 | 12.05 | 15.08 | 12.36 | 18.84 |
|      |                         | 203° | 24.71 | 21.88 | 11.17 | 12.34 | 14.92 | 12.49 | 13.51 | 13.60 | 12.05 | 15.22 | 12.36 | 19.01 |
|      |                         | 202° | 24.71 | 21.82 | 11.14 | 12.42 | 14.82 | 12.36 | 13.59 | 13.61 | 12.05 | 15.13 | 12.28 | 19.03 |
|      | Stand mode (Horizontal) | 201° | 24.85 | 21.73 | 11.17 | 12.47 | 14.93 | 12.42 | 13.69 | 13.60 | 11.99 | 15.12 | 12.33 | 18.94 |
|      |                         | 205° | 27.89 | 24.68 | 20.12 | 20.39 | 20.02 | 20.03 | 20.12 | 20.22 | 20.51 | 19.61 | 20.28 | 20.19 |
|      |                         | 204° | 27.81 | 24.65 | 20.15 | 20.31 | 19.95 | 20.01 | 20.01 | 20.25 | 20.57 | 19.68 | 20.22 | 20.16 |
|      |                         | 203° | 27.77 | 24.66 | 20.14 | 20.42 | 20.05 | 19.99 | 20.01 | 20.27 | 20.50 | 19.74 | 20.21 | 20.20 |
| WWAN | Flat                    | 202° | 27.88 | 24.66 | 20.11 | 20.45 | 19.95 | 20.06 | 19.99 | 20.25 | 20.59 | 19.73 | 20.27 | 20.17 |
|      |                         | 201° | 27.88 | 24.79 | 20.17 | 20.45 | 20.02 | 20.09 | 19.95 | 20.30 | 20.55 | 19.80 | 20.37 | 20.05 |
|      |                         | 200° | 24.81 | 21.80 | 11.16 | 12.41 | 15.00 | 12.41 | 13.68 | 13.61 | 12.04 | 15.19 | 12.29 | 19.92 |
|      |                         | 199° | 24.77 | 21.78 | 11.30 | 12.42 | 14.84 | 12.42 | 13.54 | 13.55 | 12.14 | 15.22 | 12.33 | 19.04 |
|      | Flat                    | 198° | 24.74 | 21.63 | 11.28 | 12.46 | 14.85 | 12.47 | 13.68 | 13.59 | 12.02 | 15.08 | 12.32 | 18.91 |
|      |                         | 197° | 24.89 | 21.74 | 11.11 | 12.49 | 14.98 | 12.37 | 13.69 | 13.57 | 12.01 | 15.07 | 12.26 | 18.97 |
|      |                         | 196° | 24.69 | 21.65 | 11.29 | 12.43 | 14.92 | 12.37 | 13.61 | 13.53 | 11.97 | 15.14 | 12.34 | 18.97 |
|      |                         | 195° | 24.79 | 21.87 | 11.20 | 12.47 | 14.87 | 12.50 | 13.67 | 13.69 | 12.04 | 15.14 | 12.29 | 19.09 |
|      | Flat                    | 185° | 24.82 | 21.77 | 11.26 | 12.41 | 14.95 | 12.36 | 13.55 | 13.57 | 12.09 | 15.07 | 12.21 | 18.97 |
|      |                         | 175° | 24.63 | 21.76 | 11.14 | 12.35 | 14.97 | 12.32 | 13.63 | 13.60 | 11.99 | 15.09 | 12.27 | 19.05 |
| WWAN | Flat                    | 165° | 24.77 | 21.76 | 11.29 | 12.31 | 14.98 | 12.34 | 13.68 | 13.60 | 12.03 | 15.11 | 12.34 | 19.07 |
|      |                         | 155° | 24.83 | 21.77 | 11.11 | 12.36 | 14.83 | 12.40 | 13.59 | 13.68 | 12.03 | 15.12 | 12.37 | 19.07 |
|      |                         | 145° | 24.85 | 21.78 | 11.27 | 12.49 | 14.99 | 12.40 | 13.61 | 13.69 | 12.07 | 15.06 | 12.39 | 19.10 |
|      |                         | 135° | 24.71 | 21.78 | 11.22 | 12.45 | 14.91 | 12.49 | 13.67 | 13.65 | 12.07 | 15.24 | 12.26 | 19.08 |
|      | Laptop                  | 130° | 27.80 | 24.66 | 20.17 | 20.48 | 19.91 | 19.93 | 20.11 | 20.23 | 20.45 | 19.80 | 20.31 | 20.19 |
|      | Flat                    | 130° | 24.84 | 21.72 | 11.16 | 12.41 | 14.98 | 12.48 | 13.63 | 13.65 | 12.00 | 15.24 | 12.27 | 19.03 |
|      |                         | 129° | 27.89 | 24.67 | 20.03 | 20.49 | 20.07 | 20.05 | 20.15 | 20.18 | 20.41 | 19.72 | 20.34 | 20.17 |
|      | Laptop                  | 128° | 27.77 | 24.72 | 20.06 | 20.31 | 20.09 | 20.03 | 20.11 | 20.24 | 20.53 | 19.70 | 20.36 | 20.16 |
|      |                         | 127° | 27.76 | 24.72 | 20.16 | 20.46 | 19.97 | 20.08 | 20.12 | 20.27 | 20.44 | 19.63 | 20.36 | 20.10 |
|      |                         | 126° | 27.73 | 24.77 | 20.29 | 20.36 | 20.06 | 19.97 | 20.09 | 20.24 | 20.43 | 19.66 | 20.24 | 20.19 |
|      |                         | 125° | 27.83 | 24.80 | 20.12 | 20.45 | 20.06 | 19.94 | 20.12 | 20.19 | 20.55 | 19.63 | 20.38 | 20.15 |
|      |                         | 115° | 27.71 | 24.69 | 20.04 | 20.44 | 19.93 | 20.04 | 20.07 | 20.21 | 19.79 | 20.40 | 20.12 | 20.12 |
|      |                         | 100° | 27.78 | 24.78 | 20.05 | 20.50 | 20.00 | 19.95 | 19.98 | 20.26 | 20.45 | 19.76 | 20.36 | 20.04 |
|      |                         | 95°  | 27.87 | 24.63 | 20.15 | 20.44 | 19.95 | 20.04 | 20.02 | 20.12 | 20.47 | 19.73 | 20.24 | 20.03 |
|      |                         | 85°  | 27.73 | 24.71 | 20.16 | 20.39 | 19.95 | 19.92 | 19.97 | 20.21 | 20.46 | 19.63 | 20.30 | 20.17 |
|      |                         | 75°  | 27.80 | 24.73 | 20.08 | 20.49 | 19.98 | 20.02 | 20.11 | 20.30 | 20.53 | 19.68 | 20.30 | 20.10 |
|      |                         | 65°  | 27.90 | 24.77 | 20.06 | 20.40 | 19.98 | 20.04 | 20.10 | 20.11 | 20.46 | 19.64 | 20.38 | 20.03 |
| WWAN | Flat                    | 55°  | 27.76 | 24.71 | 20.17 | 20.32 | 20.01 | 20.10 | 20.04 | 20.23 | 20.45 | 19.61 | 20.33 | 20.15 |
|      |                         | 45°  | 27.74 | 24.62 | 20.09 | 20.39 | 19.92 | 20.11 | 20.23 | 20.49 | 19.76 | 20.34 | 20.04 | 20.04 |
|      | Flat                    | 35°  | 27.80 | 24.78 | 20.09 | 20.48 | 19.98 | 20.02 | 20.04 | 20.23 | 20.59 | 19.69 | 20.22 | 20.15 |
|      |                         | 25°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      | Lid close               | 30°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 35°  | 27.85 | 24.77 | 20.18 | 20.31 | 20.06 | 20.01 | 20.08 | 20.18 | 20.47 | 19.74 | 20.39 | 20.11 |
|      | Laptop                  | 34°  | 27.71 | 24.78 | 20.11 | 20.30 | 20.10 | 19.96 | 20.15 | 20.17 | 20.51 | 19.76 | 20.32 | 20.11 |
|      |                         | 33°  | 27.79 | 24.69 | 20.09 | 20.48 | 19.91 | 20.05 | 20.29 | 20.52 | 20.27 | 20.54 | 20.27 | 20.04 |
|      |                         | 31°  | 27.80 | 24.75 | 20.09 | 20.45 | 20.10 | 19.99 | 20.12 | 20.11 | 20.46 | 19.76 | 20.25 | 20.15 |
|      |                         | 31°  | 27.80 | 24.75 | 20.09 | 20.45 | 20.10 | 19.99 | 20.12 | 20.11 | 20.46 | 19.76 | 20.25 | 20.15 |
| WWAN | Lid close               | 30°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 25°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 28°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 27°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 26°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 25°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 15°  | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 5°   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 0°   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |
|      |                         | 0°   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   | n/a   |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## 4.5 Test limit

### [§ 2.1093\(d\)\(1\)](#)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in [§ 1.1310](#) as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in [§ 1.1310\(a\)](#) through [\(c\) of this chapter](#) shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

### [§ 1.1310\(a\)](#)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

### [§ 1.1310\(b\)](#)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

### [§ 1.1310\(c\)](#)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in [Section 4.2](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm<sup>2</sup> per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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| Frequency range (MHz)                                    | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) Limits for Occupational/Controlled Exposure          |                               |                               |                                     |                          |
| 0.3-3.0  | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0-30   | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30-300   | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300-1,500  |                               |                               | f/300                               | <6                       |
| 1,500-100,000  |                               |                               | 5                                   | <6                       |
| (ii) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
| 0.3-1.34   | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34-30  | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30-300   | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300-1,500  |                               |                               | f/1500                              | <30                      |
| 1,500-100,000  |                               |                               | 1.0                                 | <30                      |

f = frequency in MHz. \* = Plane-wave equivalent power density.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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## 5 MAXIMUM OUTPUT POWER

### 5.1 GSM/GPRS/EDGE

#### FULL

| Burst average power  |                    |     |                          |                           |                           |                           |
|--|--------------------|-----|--------------------------|---------------------------|---------------------------|---------------------------|
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 34                       | 31                        | 29                        | 28                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| GPRS 850<br>(GMSK)   | 824.2              | 128 | 32.70                    | 29.33                     | 28.31                     | 27.31                     |
|  | 836.6              | 190 | 33.15                    | 30.17                     | 28.99                     | 27.99                     |
|  | 848.8              | 251 | 32.39                    | 29.01                     | 28.86                     | 27.13                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| GPRS 850<br>(GMSK)   | 824.2              | 128 | 23.67                    | 23.31                     | 24.05                     | 24.30                     |
|  | 836.6              | 190 | 24.12                    | 24.15                     | 24.73                     | 24.98                     |
|  | 848.8              | 251 | 23.36                    | 22.99                     | 24.60                     | 21.44                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |
| Burst average power  |                    |     |                          |                           |                           |                           |
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 28                       | 25                        | 23                        | 22                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| EDGE 850<br>(8PSK)   | 824.2              | 128 | 27.30                    | 24.02                     | 22.62                     | 21.63                     |
|  | 836.6              | 190 | 27.58                    | 24.37                     | 22.91                     | 21.95                     |
|  | 848.8              | 251 | 26.73                    | 23.73                     | 22.27                     | 21.52                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| EDGE 850<br>(8PSK)   | 824.2              | 128 | 18.27                    | 18.00                     | 18.36                     | 18.62                     |
|  | 836.6              | 190 | 18.55                    | 18.35                     | 18.65                     | 18.94                     |
|  | 848.8              | 251 | 17.70                    | 17.71                     | 18.01                     | 18.51                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |

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| Burst average power  |                    |     |                          |                           |                           |                           |
|--|--------------------|-----|--------------------------|---------------------------|---------------------------|---------------------------|
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 31                       | 28                        | 26                        | 25                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| GPRS 1900<br>(GMSK)  | 1850.2             | 512 | 29.51                    | 27.76                     | 25.95                     | 24.82                     |
|  | 1880               | 661 | 29.41                    | 27.60                     | 25.79                     | 24.77                     |
|  | 1909.8             | 810 | 29.34                    | 27.41                     | 25.66                     | 24.71                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| GPRS 1900<br>(GMSK)  | 1850.2             | 512 | 20.48                    | 21.74                     | 21.69                     | 21.81                     |
|  | 1880               | 661 | 20.38                    | 21.58                     | 21.53                     | 21.76                     |
|  | 1909.8             | 810 | 20.31                    | 21.39                     | 21.40                     | 21.70                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |
| Burst average power  |                    |     |                          |                           |                           |                           |
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 27                       | 24                        | 22                        | 21                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| EDGE 1900<br>(8PSK)  | 1850.2             | 512 | 25.80                    | 23.32                     | 21.41                     | 20.39                     |
|  | 1880               | 661 | 25.68                    | 23.14                     | 21.40                     | 20.26                     |
|  | 1909.8             | 810 | 25.86                    | 23.31                     | 21.60                     | 20.51                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| EDGE 1900<br>(8PSK)  | 1850.2             | 512 | 16.77                    | 17.30                     | 17.15                     | 17.38                     |
|  | 1880               | 661 | 16.65                    | 17.12                     | 17.14                     | 17.25                     |
|  | 1909.8             | 810 | 16.83                    | 17.29                     | 17.34                     | 17.50                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |

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| Burst average power  |                    |     |                          |                           |                           |                           |
|--|--------------------|-----|--------------------------|---------------------------|---------------------------|---------------------------|
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 31                       | 28                        | 26                        | 25                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| GPRS 850<br>(GMSK)   | 824.2              | 128 | 30.20                    | 27.23                     | 25.31                     | 24.51                     |
|  | 836.6              | 190 | 30.65                    | 27.67                     | 25.99                     | 24.99                     |
|  | 848.8              | 251 | 30.33                    | 27.21                     | 25.86                     | 24.23                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| GPRS 850<br>(GMSK)   | 824.2              | 128 | 21.17                    | 21.21                     | 21.05                     | 21.50                     |
|  | 836.6              | 190 | 21.62                    | 21.65                     | 21.73                     | 21.98                     |
|  | 848.8              | 251 | 21.30                    | 21.19                     | 21.60                     | 21.44                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |
| Burst average power  |                    |     |                          |                           |                           |                           |
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 28                       | 25                        | 23                        | 22                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| EDGE 850<br>(8PSK)   | 824.2              | 128 | 27.30                    | 24.02                     | 22.62                     | 21.63                     |
|  | 836.6              | 190 | 27.58                    | 24.37                     | 22.91                     | 21.95                     |
|  | 848.8              | 251 | 26.73                    | 23.73                     | 22.27                     | 21.52                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| EDGE 850<br>(8PSK)   | 824.2              | 128 | 18.27                    | 18.00                     | 18.36                     | 18.62                     |
|  | 836.6              | 190 | 18.55                    | 18.35                     | 18.65                     | 18.94                     |
|  | 848.8              | 251 | 17.70                    | 17.71                     | 18.01                     | 18.51                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |

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| Burst average power  |                    |     |                          |                           |                           |                           |
|--|--------------------|-----|--------------------------|---------------------------|---------------------------|---------------------------|
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 26                       | 23                        | 21                        | 20                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| GPRS 1900<br>(GMSK)  | 1850.2             | 512 | 25.51                    | 22.74                     | 20.86                     | 19.82                     |
|  | 1880               | 661 | 25.41                    | 22.52                     | 20.77                     | 19.77                     |
|  | 1909.8             | 810 | 25.34                    | 22.39                     | 20.63                     | 19.65                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| GPRS 1900<br>(GMSK)  | 1850.2             | 512 | 16.48                    | 16.72                     | 16.60                     | 16.81                     |
|  | 1880               | 661 | 16.38                    | 16.50                     | 16.51                     | 16.76                     |
|  | 1909.8             | 810 | 16.31                    | 16.37                     | 16.37                     | 16.64                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |
| Burst average power  |                    |     |                          |                           |                           |                           |
| Max. Rated Avg. Power +<br>Max. Tolerance (dBm)            |                    |     | 26                       | 23                        | 21                        | 20                        |
|  |                    |     | 1Dn1UP<br>Multi- class 8 | 1Dn2UP<br>Multi- class 10 | 1Dn3UP<br>Multi- class 11 | 1Dn4UP<br>Multi- class 12 |
| EUT mode   | Frequency<br>(MHz) | CH  | Avg.<br>(dBm)            | Avg.<br>(dBm)             | Avg.<br>(dBm)             | Avg.<br>(dBm)             |
| EDGE 1900<br>(8PSK)  | 1850.2             | 512 | 25.80                    | 22.32                     | 20.50                     | 19.39                     |
|  | 1880               | 661 | 25.71                    | 22.15                     | 20.44                     | 19.30                     |
|  | 1909.8             | 810 | 25.63                    | 22.31                     | 20.68                     | 19.52                     |
| Source-based time average power                            |                    |     |                          |                           |                           |                           |
| EDGE 1900<br>(8PSK)  | 1850.2             | 512 | 16.77                    | 16.30                     | 16.24                     | 16.38                     |
|  | 1880               | 661 | 16.68                    | 16.13                     | 16.18                     | 16.29                     |
|  | 1909.8             | 810 | 16.60                    | 16.29                     | 16.42                     | 16.51                     |
| The division factor compared to the number of TX time slot |                    |     |                          |                           |                           |                           |
| Division factor  |                    |     | 1 TX time slot           | 2 TX time slot            | 3 TX time slot            | 4 TX time slot            |
|  |                    |     | -9.03                    | -6.02                     | -4.26                     | -3.01                     |

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## 5.2 FDD CAT.M1

### Tablet mode

| LTE Band 2_Cat.M1 |            |         |           |                  |                       |       |        |                                     |                          |
|-------------------|------------|---------|-----------|------------------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 1852.5                | 1880  | 1907.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel           |            |         |           |                  | 18625                 | 18900 | 19175  |                                     |                          |
| 5                 | QPSK       | 1       | 0         | 0                | 11.45                 | 11.48 | 11.41  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 11.40                 | 11.33 | 11.31  | 12.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 11.26                 | 11.42 | 11.28  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 11.39                 | 11.34 | 11.35  | 12.00                               | 0                        |
|                   |            | 1       | 0         | 3                | 11.35                 | 11.33 | 11.30  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 3                | 11.28                 | 11.31 | 11.29  | 12.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 11.37                 | 11.41 | 11.31  | 12.00                               | 0                        |
|                   |            | 3       | 3         | 3                | 11.35                 | 11.35 | 11.30  | 12.00                               | 0                        |
|                   |            | 6       | 0         | 0                | 11.32                 | 11.31 | 11.26  | 12.00                               | 0                        |
|                   |            | 6       | 0         | 1                | 11.33                 | 11.36 | 11.30  | 12.00                               | 0                        |
|                   |            | 6       | 0         | 3                | 11.37                 | 11.41 | 11.24  | 12.00                               | 0                        |
|                   | 16-QAM     | 1       | 0         | 0                | 11.34                 | 11.43 | 11.31  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 11.35                 | 11.31 | 11.32  | 12.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 11.40                 | 11.35 | 11.25  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 11.32                 | 11.38 | 11.25  | 12.00                               | 0                        |
|                   |            | 1       | 0         | 3                | 11.30                 | 11.39 | 11.32  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 3                | 11.38                 | 11.32 | 11.27  | 12.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 11.40                 | 11.38 | 11.25  | 12.00                               | 0                        |
|                   |            | 3       | 3         | 3                | 11.29                 | 11.34 | 11.33  | 12.00                               | 0                        |
|                   |            | 5       | 0         | 0                | 11.38                 | 11.37 | 11.27  | 12.00                               | 0                        |
|                   |            | 5       | 0         | 1                | 11.30                 | 11.41 | 11.20  | 12.00                               | 0                        |
|                   |            | 5       | 0         | 3                | 11.33                 | 11.32 | 11.22  | 12.00                               | 0                        |
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 1851.5                | 1880  | 1908.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel           |            |         |           |                  | 18615                 | 18900 | 19185  |                                     |                          |
| 3                 | QPSK       | 1       | 0         | 0                | 11.33                 | 11.41 | 11.30  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 11.27                 | 11.37 | 11.28  | 12.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 11.31                 | 11.33 | 11.34  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 11.33                 | 11.37 | 11.23  | 12.00                               | 0                        |
|                   |            | 3       | 3         | 0                | 11.42                 | 11.31 | 11.21  | 12.00                               | 0                        |
|                   |            | 3       | 3         | 1                | 11.32                 | 11.40 | 11.33  | 12.00                               | 0                        |
|                   |            | 6       | 0         | 0                | 11.26                 | 11.42 | 11.35  | 12.00                               | 0                        |
|                   |            | 6       | 0         | 1                | 11.25                 | 11.34 | 11.28  | 12.00                               | 0                        |
|                   | 16-QAM     | 1       | 0         | 0                | 11.30                 | 11.35 | 11.31  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 11.35                 | 11.35 | 11.35  | 12.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 11.29                 | 11.28 | 11.30  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 11.34                 | 11.37 | 11.26  | 12.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 11.28                 | 11.40 | 11.33  | 12.00                               | 0                        |
|                   |            | 3       | 3         | 1                | 11.36                 | 11.40 | 11.24  | 12.00                               | 0                        |
|                   |            | 5       | 0         | 0                | 11.37                 | 11.36 | 11.28  | 12.00                               | 0                        |
|                   |            | 5       | 0         | 1                | 11.27                 | 11.33 | 11.36  | 12.00                               | 0                        |

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| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz)   |            |         |           |                  | 1850.7                | 1880   | 1909.3 |                                     |                          |
| Channel           |            |         |           |                  | 18607                 | 18900  | 19193  |                                     |                          |
| 1.4               | QPSK       | 1       | 0         | 0                | 11.31                 | 11.39  | 11.35  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 11.39                 | 11.31  | 11.30  | 12.00                               | 0                        |
|                   |            | 3       | 3         | 0                | 11.29                 | 11.36  | 11.25  | 12.00                               | 0                        |
|                   |            | 6       | 0         | 0                | 11.37                 | 11.37  | 11.31  | 12.00                               | 0                        |
|                   | 16-QAM     | 1       | 0         | 0                | 11.42                 | 11.37  | 11.33  | 12.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 11.25                 | 11.35  | 11.29  | 12.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 11.32                 | 11.41  | 11.28  | 12.00                               | 0                        |
|                   |            | 5       | 0         | 0                | 11.41                 | 11.40  | 11.23  | 12.00                               | 0                        |
| LTE Band 4_Cat.M1 |            |         |           |                  |                       |        |        |                                     |                          |
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 1712.5                | 1732.5 | 1752.5 |                                     |                          |
| Channel           |            |         |           |                  | 19975                 | 20175  | 20375  |                                     |                          |
| 5                 | QPSK       | 1       | 0         | 0                | 12.48                 | 12.58  | 12.66  | 13.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 12.39                 | 12.40  | 12.52  | 13.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 12.36                 | 12.46  | 12.60  | 13.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 12.33                 | 12.42  | 12.54  | 13.00                               | 0                        |
|                   |            | 1       | 0         | 3                | 12.37                 | 12.50  | 12.55  | 13.00                               | 0                        |
|                   |            | 1       | 5         | 3                | 12.41                 | 12.48  | 12.55  | 13.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 12.34                 | 12.48  | 12.55  | 13.00                               | 0                        |
|                   |            | 3       | 3         | 3                | 12.42                 | 12.43  | 12.48  | 13.00                               | 0                        |
|                   |            | 6       | 0         | 0                | 12.36                 | 12.51  | 12.58  | 13.00                               | 0                        |
|                   |            | 6       | 0         | 1                | 12.39                 | 12.48  | 12.52  | 13.00                               | 0                        |
|                   | 16-QAM     | 6       | 0         | 3                | 12.43                 | 12.54  | 12.58  | 13.00                               | 0                        |
|                   |            | 1       | 0         | 0                | 12.39                 | 12.52  | 12.51  | 13.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 12.41                 | 12.50  | 12.48  | 13.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 12.39                 | 12.46  | 12.49  | 13.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 12.38                 | 12.42  | 12.51  | 13.00                               | 0                        |
|                   |            | 1       | 0         | 3                | 12.39                 | 12.42  | 12.55  | 13.00                               | 0                        |
|                   |            | 1       | 5         | 3                | 12.38                 | 12.46  | 12.48  | 13.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 12.32                 | 12.52  | 12.57  | 13.00                               | 0                        |
|                   |            | 3       | 3         | 3                | 12.34                 | 12.48  | 12.51  | 13.00                               | 0                        |
|                   |            | 5       | 0         | 0                | 12.27                 | 12.45  | 12.51  | 13.00                               | 0                        |
|                   |            | 5       | 0         | 1                | 12.35                 | 12.47  | 12.62  | 13.00                               | 0                        |
|                   |            | 5       | 0         | 3                | 12.42                 | 12.48  | 12.48  | 13.00                               | 0                        |

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| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-----------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz) |            |         |           |                  | 1711.5                | 1732.5 | 1753.5 | 13.00                               | 0                        |
| Channel         |            |         |           |                  | 19965                 | 20175  | 20385  |                                     |                          |
| 3               | QPSK       | 1       | 0         | 0                | 12.44                 | 12.43  | 12.56  | 13.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.32                 | 12.49  | 12.56  | 13.00                               | 0                        |
|                 |            | 1       | 0         | 1                | 12.44                 | 12.50  | 12.57  | 13.00                               | 0                        |
|                 |            | 1       | 5         | 1                | 12.33                 | 12.44  | 12.49  | 13.00                               | 0                        |
|                 |            | 3       | 3         | 0                | 12.35                 | 12.47  | 12.53  | 13.00                               | 0                        |
|                 |            | 3       | 3         | 1                | 12.36                 | 12.48  | 12.51  | 13.00                               | 0                        |
|                 |            | 6       | 0         | 0                | 12.30                 | 12.47  | 12.59  | 13.00                               | 0                        |
|                 |            | 6       | 0         | 1                | 12.34                 | 12.42  | 12.51  | 13.00                               | 0                        |
|                 | 16-QAM     | 1       | 0         | 0                | 12.40                 | 12.52  | 12.52  | 13.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.35                 | 12.51  | 12.54  | 13.00                               | 0                        |
|                 |            | 1       | 0         | 1                | 12.40                 | 12.46  | 12.58  | 13.00                               | 0                        |
|                 |            | 1       | 5         | 1                | 12.37                 | 12.43  | 12.53  | 13.00                               | 0                        |
|                 |            | 3       | 0         | 0                | 12.31                 | 12.52  | 12.60  | 13.00                               | 0                        |
|                 |            | 3       | 3         | 1                | 12.36                 | 12.46  | 12.56  | 13.00                               | 0                        |
|                 |            | 5       | 0         | 0                | 12.35                 | 12.53  | 12.48  | 13.00                               | 0                        |
|                 |            | 5       | 0         | 1                | 12.43                 | 12.55  | 12.51  | 13.00                               | 0                        |
| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           |                  | 1710.7                | 1732.5 | 1754.3 | 13.00                               | 0                        |
| Channel         |            |         |           |                  | 19957                 | 20175  | 20393  |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 0                | 12.39                 | 12.43  | 12.55  | 13.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.34                 | 12.43  | 12.55  | 13.00                               | 0                        |
|                 |            | 3       | 3         | 0                | 12.32                 | 12.40  | 12.52  | 13.00                               | 0                        |
|                 |            | 6       | 0         | 0                | 12.33                 | 12.49  | 12.51  | 13.00                               | 0                        |
|                 | 16-QAM     | 1       | 0         | 0                | 12.36                 | 12.47  | 12.56  | 13.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.36                 | 12.52  | 12.55  | 13.00                               | 0                        |
|                 |            | 3       | 0         | 0                | 12.42                 | 12.45  | 12.54  | 13.00                               | 0                        |
|                 |            | 5       | 0         | 0                | 12.40                 | 12.51  | 12.52  | 13.00                               | 0                        |

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| LTE Band 5_Cat.M1 |            |         |           |                  |                       |       |       |                                     |                          |
|-------------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 826.5                 | 836.5 | 846.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel           |            |         |           |                  | 20425                 | 20525 | 20625 |                                     |                          |
| 5                 | QPSK       | 1       | 0         | 0                | 15.16                 | 15.18 | 15.11 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 15.03                 | 15.06 | 15.04 | 16.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 15.06                 | 15.08 | 15.01 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 14.98                 | 15.08 | 15.06 | 16.00                               | 0                        |
|                   |            | 1       | 0         | 3                | 15.01                 | 15.06 | 14.94 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 3                | 15.04                 | 15.12 | 14.97 | 16.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 15.08                 | 15.06 | 15.02 | 16.00                               | 0                        |
|                   |            | 3       | 3         | 3                | 15.01                 | 15.11 | 14.98 | 16.00                               | 0                        |
|                   |            | 6       | 0         | 0                | 15.06                 | 15.01 | 14.93 | 16.00                               | 0                        |
|                   |            | 6       | 0         | 1                | 14.98                 | 15.12 | 15.04 | 16.00                               | 0                        |
|                   |            | 6       | 0         | 3                | 15.10                 | 15.09 | 15.02 | 16.00                               | 0                        |
|                   | 16-QAM     | 1       | 0         | 0                | 14.95                 | 15.12 | 14.96 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 15.03                 | 15.03 | 15.06 | 16.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 15.04                 | 15.06 | 15.01 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 15.01                 | 15.05 | 15.00 | 16.00                               | 0                        |
|                   |            | 1       | 0         | 3                | 15.09                 | 15.06 | 14.99 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 3                | 15.05                 | 15.11 | 14.97 | 16.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 14.98                 | 15.04 | 15.05 | 16.00                               | 0                        |
|                   |            | 3       | 3         | 3                | 15.01                 | 15.09 | 15.00 | 16.00                               | 0                        |
|                   |            | 5       | 0         | 0                | 15.06                 | 15.10 | 15.02 | 16.00                               | 0                        |
|                   |            | 5       | 0         | 1                | 15.08                 | 15.03 | 15.03 | 16.00                               | 0                        |
|                   |            | 5       | 0         | 3                | 15.01                 | 15.04 | 14.96 | 16.00                               | 0                        |
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 825.5                 | 836.5 | 847.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel           |            |         |           |                  | 20415                 | 20525 | 20635 |                                     |                          |
| 3                 | QPSK       | 1       | 0         | 0                | 15.08                 | 15.07 | 15.01 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 15.00                 | 15.15 | 15.06 | 16.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 15.09                 | 15.07 | 14.99 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 15.04                 | 15.07 | 15.05 | 16.00                               | 0                        |
|                   |            | 3       | 3         | 0                | 15.02                 | 15.10 | 14.99 | 16.00                               | 0                        |
|                   |            | 3       | 3         | 1                | 15.03                 | 15.03 | 15.00 | 16.00                               | 0                        |
|                   |            | 6       | 0         | 0                | 15.04                 | 15.02 | 15.03 | 16.00                               | 0                        |
|                   |            | 6       | 0         | 1                | 15.06                 | 15.08 | 15.00 | 16.00                               | 0                        |
|                   | 16-QAM     | 1       | 0         | 0                | 15.05                 | 15.03 | 14.97 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 0                | 15.05                 | 15.09 | 14.99 | 16.00                               | 0                        |
|                   |            | 1       | 0         | 1                | 15.09                 | 15.12 | 14.97 | 16.00                               | 0                        |
|                   |            | 1       | 5         | 1                | 15.11                 | 15.10 | 14.91 | 16.00                               | 0                        |
|                   |            | 3       | 0         | 0                | 15.09                 | 15.09 | 14.94 | 16.00                               | 0                        |
|                   |            | 3       | 3         | 1                | 15.04                 | 15.13 | 15.00 | 16.00                               | 0                        |
|                   |            | 5       | 0         | 0                | 15.07                 | 15.06 | 15.00 | 16.00                               | 0                        |
|                   |            | 5       | 0         | 1                | 15.01                 | 15.05 | 15.02 | 16.00                               | 0                        |

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| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz)    |            |         |           |                  | 1710.7                | 1732.5 | 1754.3 |                                     |                          |
| Channel            |            |         |           |                  | 19957                 | 20175  | 20393  |                                     |                          |
| 1.4                | QPSK       | 1       | 0         | 0                | 14.99                 | 15.08  | 14.96  | 16.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 15.01                 | 15.11  | 15.05  | 16.00                               | 0                        |
|                    |            | 3       | 3         | 0                | 15.03                 | 15.06  | 15.03  | 16.00                               | 0                        |
|                    |            | 6       | 0         | 0                | 15.03                 | 15.02  | 15.00  | 16.00                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 15.02                 | 15.10  | 14.94  | 16.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 15.10                 | 15.04  | 15.00  | 16.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 15.09                 | 15.11  | 15.00  | 16.00                               | 0                        |
|                    |            | 5       | 0         | 0                | 15.01                 | 15.00  | 14.96  | 16.00                               | 0                        |
| LTE Band 12_Cat.M1 |            |         |           |                  |                       |        |        |                                     |                          |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 701.5                 | 707.5  | 713.5  |                                     |                          |
| Channel            |            |         |           |                  | 23035                 | 23095  | 23155  |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 12.64                 | 12.65  | 12.58  | 13.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.52                 | 12.55  | 12.52  | 13.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 12.55                 | 12.51  | 12.47  | 13.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 12.60                 | 12.53  | 12.46  | 13.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 12.56                 | 12.51  | 12.47  | 13.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 12.55                 | 12.52  | 12.39  | 13.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 12.46                 | 12.62  | 12.42  | 13.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 12.47                 | 12.51  | 12.42  | 13.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 12.57                 | 12.50  | 12.50  | 13.50                               | 0                        |
|                    |            | 6       | 0         | 1                | 12.55                 | 12.53  | 12.48  | 13.50                               | 0                        |
|                    | 16-QAM     | 6       | 0         | 3                | 12.50                 | 12.56  | 12.46  | 13.50                               | 0                        |
|                    |            | 1       | 0         | 0                | 12.54                 | 12.55  | 12.42  | 13.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.56                 | 12.49  | 12.49  | 13.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 12.57                 | 12.55  | 12.54  | 13.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 12.57                 | 12.47  | 12.49  | 13.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 12.49                 | 12.51  | 12.49  | 13.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 12.50                 | 12.56  | 12.53  | 13.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 12.51                 | 12.52  | 12.42  | 13.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 12.57                 | 12.48  | 12.47  | 13.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 12.46                 | 12.51  | 12.44  | 13.50                               | 0                        |
|                    |            | 5       | 0         | 1                | 12.48                 | 12.57  | 12.41  | 13.50                               | 0                        |
|                    |            | 5       | 0         | 3                | 12.50                 | 12.60  | 12.46  | 13.50                               | 0                        |

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| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-----------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| Frequency (MHz) |            |         |           |                  | 700.5                 | 707.5 | 714.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 23025                 | 23095 | 23165 |                                     |                          |
| 3               | QPSK       | 1       | 0         | 0                | 12.55                 | 12.51 | 12.45 | 13.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.45                 | 12.54 | 12.53 | 13.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 12.58                 | 12.50 | 12.50 | 13.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 12.47                 | 12.49 | 12.40 | 13.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 12.50                 | 12.53 | 12.50 | 13.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 12.55                 | 12.48 | 12.45 | 13.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 12.51                 | 12.50 | 12.42 | 13.50                               | 0                        |
|                 |            | 6       | 0         | 1                | 12.54                 | 12.52 | 12.48 | 13.50                               | 0                        |
|                 | 16-QAM     | 1       | 0         | 0                | 12.47                 | 12.54 | 12.50 | 13.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.48                 | 12.54 | 12.43 | 13.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 12.52                 | 12.47 | 12.54 | 13.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 12.52                 | 12.60 | 12.46 | 13.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 12.57                 | 12.56 | 12.47 | 13.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 12.52                 | 12.51 | 12.50 | 13.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 12.54                 | 12.52 | 12.54 | 13.50                               | 0                        |
|                 |            | 5       | 0         | 1                | 12.58                 | 12.56 | 12.39 | 13.50                               | 0                        |
| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           |                  | 699.7                 | 707.5 | 715.3 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 23017                 | 23095 | 23173 |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 0                | 12.45                 | 12.47 | 12.50 | 13.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.47                 | 12.55 | 12.41 | 13.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 12.51                 | 12.61 | 12.51 | 13.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 12.60                 | 12.54 | 12.47 | 13.50                               | 0                        |
|                 | 16-QAM     | 1       | 0         | 0                | 12.59                 | 12.61 | 12.46 | 13.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 12.56                 | 12.53 | 12.42 | 13.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 12.49                 | 12.53 | 12.47 | 13.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 12.49                 | 12.60 | 12.53 | 13.50                               | 0                        |

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| LTE Band 13_Cat.M1 |            |         |           |                  |                       |       |       |                                     |                          |
|--------------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 779.5                 | 782   | 784.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 23205                 | 23230 | 23255 |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 13.88                 | 13.87 | 13.89 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 13.82                 | 13.74 | 13.77 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 13.77                 | 13.72 | 13.74 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 13.77                 | 13.76 | 13.78 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 13.79                 | 13.77 | 13.74 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 13.70                 | 13.66 | 13.85 | 14.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 13.80                 | 13.74 | 13.70 | 14.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 13.72                 | 13.71 | 13.79 | 14.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 13.73                 | 13.77 | 13.81 | 14.50                               | 0                        |
|                    |            | 6       | 0         | 1                | 13.75                 | 13.72 | 13.82 | 14.50                               | 0                        |
|                    |            | 6       | 0         | 3                | 13.73                 | 13.76 | 13.84 | 14.50                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 13.76                 | 13.77 | 13.79 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 13.83                 | 13.68 | 13.77 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 13.83                 | 13.66 | 13.81 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 13.75                 | 13.70 | 13.80 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 13.77                 | 13.79 | 13.82 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 13.79                 | 13.72 | 13.81 | 14.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 13.69                 | 13.80 | 13.77 | 14.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 13.81                 | 13.82 | 13.72 | 14.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 13.77                 | 13.68 | 13.78 | 14.50                               | 0                        |
|                    |            | 5       | 0         | 1                | 13.80                 | 13.79 | 13.76 | 14.50                               | 0                        |
|                    |            | 5       | 0         | 3                | 13.74                 | 13.78 | 13.74 | 14.50                               | 0                        |

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| LTE Band 14_Cat.M1 |            |         |           |                  |                       |       |       |                                     |                          |
|--------------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 790.5                 | 793   | 795.5 |                                     |                          |
| Channel            |            |         |           |                  | 23305                 | 23330 | 23355 |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 13.84                 | 13.82 | 13.80 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 13.68                 | 13.76 | 13.64 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 13.76                 | 13.66 | 13.65 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 13.77                 | 13.73 | 13.74 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 13.73                 | 13.69 | 13.66 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 13.68                 | 13.73 | 13.72 | 14.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 13.68                 | 13.70 | 13.76 | 14.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 13.73                 | 13.71 | 13.73 | 14.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 13.69                 | 13.66 | 13.69 | 14.50                               | 0                        |
|                    |            | 6       | 0         | 1                | 13.67                 | 13.69 | 13.60 | 14.50                               | 0                        |
|                    |            | 6       | 0         | 3                | 13.70                 | 13.65 | 13.69 | 14.50                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 13.67                 | 13.70 | 13.59 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 13.77                 | 13.78 | 13.65 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 13.76                 | 13.66 | 13.71 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 13.74                 | 13.69 | 13.69 | 14.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 13.73                 | 13.76 | 13.67 | 14.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 13.70                 | 13.68 | 13.70 | 14.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 13.80                 | 13.73 | 13.69 | 14.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 13.66                 | 13.74 | 13.65 | 14.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 13.66                 | 13.72 | 13.64 | 14.50                               | 0                        |
|                    |            | 5       | 0         | 1                | 13.72                 | 13.69 | 13.74 | 14.50                               | 0                        |
|                    |            | 5       | 0         | 3                | 13.74                 | 13.64 | 13.71 | 14.50                               | 0                        |

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| LTE Band 25_Cat.M1 |            |         |           |                  |                       |        |        |                                     |                          |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1852.5                | 1882.5 | 1912.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 26065                 | 26365  | 26665  |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 11.79                 | 11.91  | 12.21  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 11.71                 | 11.82  | 12.03  | 12.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 11.67                 | 11.75  | 12.12  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 11.67                 | 11.77  | 12.09  | 12.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 11.73                 | 11.77  | 12.04  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 11.62                 | 11.79  | 12.09  | 12.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 11.72                 | 11.73  | 12.10  | 12.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 11.70                 | 11.84  | 12.12  | 12.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 11.67                 | 11.81  | 12.08  | 12.50                               | 0                        |
|                    |            | 6       | 0         | 1                | 11.59                 | 11.82  | 12.14  | 12.50                               | 0                        |
|                    |            | 6       | 0         | 3                | 11.66                 | 11.82  | 12.11  | 12.50                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 11.60                 | 11.78  | 12.06  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 11.67                 | 11.84  | 12.10  | 12.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 11.65                 | 11.84  | 12.10  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 11.64                 | 11.83  | 12.11  | 12.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 11.63                 | 11.80  | 12.16  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 11.62                 | 11.86  | 12.04  | 12.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 11.68                 | 11.76  | 12.06  | 12.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 11.66                 | 11.87  | 12.10  | 12.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 11.64                 | 11.71  | 12.12  | 12.50                               | 0                        |
|                    |            | 5       | 0         | 1                | 11.68                 | 11.71  | 12.02  | 12.50                               | 0                        |
|                    |            | 5       | 0         | 3                | 11.71                 | 11.76  | 12.00  | 12.50                               | 0                        |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1851.5                | 1882.5 | 1913.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 26055                 | 26365  | 26675  |                                     |                          |
| 3                  | QPSK       | 1       | 0         | 0                | 11.72                 | 11.73  | 12.08  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 11.68                 | 11.86  | 12.08  | 12.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 11.65                 | 11.78  | 12.11  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 11.74                 | 11.82  | 12.05  | 12.50                               | 0                        |
|                    |            | 3       | 3         | 0                | 11.67                 | 11.70  | 12.04  | 12.50                               | 0                        |
|                    |            | 3       | 3         | 1                | 11.66                 | 11.78  | 12.07  | 12.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 11.69                 | 11.77  | 12.13  | 12.50                               | 0                        |
|                    |            | 6       | 0         | 1                | 11.65                 | 11.72  | 12.06  | 12.50                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 11.61                 | 11.83  | 12.10  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 11.75                 | 11.78  | 12.02  | 12.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 11.64                 | 11.82  | 12.12  | 12.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 11.65                 | 11.79  | 12.10  | 12.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 11.65                 | 11.76  | 12.03  | 12.50                               | 0                        |
|                    |            | 3       | 3         | 1                | 11.69                 | 11.81  | 12.03  | 12.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 11.66                 | 11.77  | 12.02  | 12.50                               | 0                        |
|                    |            | 5       | 0         | 1                | 11.69                 | 11.74  | 12.08  | 12.50                               | 0                        |

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| BW(MHz)                | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|------------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz)        |            |         |           |                  | 1850.7                | 1882.5 | 1914.3 |                                     |                          |
| Channel                |            |         |           |                  | 26047                 | 26365  | 26683  |                                     |                          |
| 1.4                    | QPSK       | 1       | 0         | 0                | 11.65                 | 11.72  | 12.07  | 12.50                               | 0                        |
|                        |            | 1       | 5         | 0                | 11.69                 | 11.75  | 12.10  | 12.50                               | 0                        |
|                        |            | 3       | 3         | 0                | 11.71                 | 11.73  | 12.16  | 12.50                               | 0                        |
|                        |            | 6       | 0         | 0                | 11.71                 | 11.80  | 12.11  | 12.50                               | 0                        |
|                        | 16-QAM     | 1       | 0         | 0                | 11.66                 | 11.83  | 12.10  | 12.50                               | 0                        |
|                        |            | 1       | 5         | 0                | 11.73                 | 11.78  | 12.12  | 12.50                               | 0                        |
|                        |            | 3       | 0         | 0                | 11.64                 | 11.79  | 12.11  | 12.50                               | 0                        |
|                        |            | 5       | 0         | 0                | 11.69                 | 11.76  | 12.12  | 12.50                               | 0                        |
| LTE Band 26_Cat.M1_FCC |            |         |           |                  |                       |        |        |                                     |                          |
| BW(MHz)                | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)        |            |         |           |                  | 816.5                 | 831.5  | 846.5  |                                     |                          |
| Channel                |            |         |           |                  | 26715                 | 26865  | 27015  |                                     |                          |
| 5                      | QPSK       | 1       | 0         | 0                | 14.96                 | 15.27  | 15.01  | 16.00                               | 0                        |
|                        |            | 1       | 5         | 0                | 14.83                 | 15.12  | 14.94  | 16.00                               | 0                        |
|                        |            | 1       | 0         | 1                | 14.79                 | 15.16  | 14.84  | 16.00                               | 0                        |
|                        |            | 1       | 5         | 1                | 14.83                 | 15.08  | 14.90  | 16.00                               | 0                        |
|                        |            | 1       | 0         | 3                | 14.87                 | 15.21  | 14.88  | 16.00                               | 0                        |
|                        |            | 1       | 5         | 3                | 14.79                 | 15.17  | 14.84  | 16.00                               | 0                        |
|                        |            | 3       | 0         | 0                | 14.82                 | 15.13  | 14.85  | 16.00                               | 0                        |
|                        |            | 3       | 3         | 3                | 14.83                 | 15.23  | 14.85  | 16.00                               | 0                        |
|                        |            | 6       | 0         | 0                | 14.85                 | 15.13  | 14.89  | 16.00                               | 0                        |
|                        |            | 6       | 0         | 1                | 14.84                 | 15.16  | 14.91  | 16.00                               | 0                        |
|                        | 16-QAM     | 6       | 0         | 3                | 14.87                 | 15.21  | 14.91  | 16.00                               | 0                        |
|                        |            | 1       | 0         | 0                | 14.87                 | 15.06  | 14.94  | 16.00                               | 0                        |
|                        |            | 1       | 5         | 0                | 14.88                 | 15.24  | 14.87  | 16.00                               | 0                        |
|                        |            | 1       | 0         | 1                | 14.81                 | 15.19  | 14.94  | 16.00                               | 0                        |
|                        |            | 1       | 5         | 1                | 14.85                 | 15.15  | 14.83  | 16.00                               | 0                        |
|                        |            | 1       | 0         | 3                | 14.90                 | 15.17  | 14.87  | 16.00                               | 0                        |
|                        |            | 1       | 5         | 3                | 14.78                 | 15.18  | 14.89  | 16.00                               | 0                        |
|                        |            | 3       | 0         | 0                | 14.83                 | 15.21  | 14.90  | 16.00                               | 0                        |
|                        |            | 3       | 3         | 3                | 14.89                 | 15.16  | 14.86  | 16.00                               | 0                        |
|                        |            | 5       | 0         | 0                | 14.79                 | 15.12  | 14.93  | 16.00                               | 0                        |
|                        |            | 5       | 0         | 1                | 14.88                 | 15.12  | 14.89  | 16.00                               | 0                        |
|                        |            | 5       | 0         | 3                | 14.87                 | 15.10  | 14.86  | 16.00                               | 0                        |

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| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-----------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| Frequency (MHz) |            |         |           |                  | 815.5                 | 831.5 | 847.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 26705                 | 26865 | 27025 |                                     |                          |
| 3               | QPSK       | 1       | 0         | 0                | 14.87                 | 15.22 | 14.89 | 16.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 14.83                 | 15.14 | 14.98 | 16.00                               | 0                        |
|                 |            | 1       | 0         | 1                | 14.79                 | 15.09 | 14.84 | 16.00                               | 0                        |
|                 |            | 1       | 5         | 1                | 14.86                 | 15.15 | 14.89 | 16.00                               | 0                        |
|                 |            | 3       | 3         | 0                | 14.82                 | 15.17 | 14.93 | 16.00                               | 0                        |
|                 |            | 3       | 3         | 1                | 14.92                 | 15.13 | 14.86 | 16.00                               | 0                        |
|                 |            | 6       | 0         | 0                | 14.88                 | 15.17 | 14.90 | 16.00                               | 0                        |
|                 |            | 6       | 0         | 1                | 14.86                 | 15.09 | 14.91 | 16.00                               | 0                        |
|                 | 16-QAM     | 1       | 0         | 0                | 14.84                 | 15.16 | 14.86 | 16.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 14.90                 | 15.09 | 14.86 | 16.00                               | 0                        |
|                 |            | 1       | 0         | 1                | 14.86                 | 15.20 | 14.84 | 16.00                               | 0                        |
|                 |            | 1       | 5         | 1                | 14.85                 | 15.15 | 14.88 | 16.00                               | 0                        |
|                 |            | 3       | 0         | 0                | 14.91                 | 15.06 | 14.97 | 16.00                               | 0                        |
|                 |            | 3       | 3         | 1                | 14.85                 | 15.22 | 14.82 | 16.00                               | 0                        |
|                 |            | 5       | 0         | 0                | 14.86                 | 15.14 | 14.94 | 16.00                               | 0                        |
|                 |            | 5       | 0         | 1                | 14.82                 | 15.12 | 14.90 | 16.00                               | 0                        |
| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           |                  | 814.7                 | 831.5 | 848.3 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 26697                 | 26865 | 27033 |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 0                | 14.85                 | 15.14 | 14.84 | 16.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 14.81                 | 15.13 | 14.91 | 16.00                               | 0                        |
|                 |            | 3       | 3         | 0                | 14.91                 | 15.14 | 14.93 | 16.00                               | 0                        |
|                 |            | 6       | 0         | 0                | 14.90                 | 15.17 | 14.91 | 16.00                               | 0                        |
|                 | 16-QAM     | 1       | 0         | 0                | 14.91                 | 15.17 | 14.86 | 16.00                               | 0                        |
|                 |            | 1       | 5         | 0                | 14.88                 | 15.13 | 14.91 | 16.00                               | 0                        |
|                 |            | 3       | 0         | 0                | 14.85                 | 15.13 | 14.95 | 16.00                               | 0                        |
|                 |            | 5       | 0         | 0                | 14.84                 | 15.17 | 14.87 | 16.00                               | 0                        |

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| LTE Band 66_Cat.M1 |            |         |           |                  |                       |        |        |                                     |                          |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1712.5                | 1745   | 1777.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 131997                | 132322 | 132647 |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 12.39                 | 12.31  | 12.49  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.26                 | 12.12  | 12.45  | 13.00                               | 0                        |
|                    |            | 1       | 0         | 1                | 12.27                 | 12.25  | 12.34  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 1                | 12.25                 | 12.18  | 12.37  | 13.00                               | 0                        |
|                    |            | 1       | 0         | 3                | 12.27                 | 12.18  | 12.38  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 3                | 12.25                 | 12.17  | 12.38  | 13.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 12.26                 | 12.19  | 12.44  | 13.00                               | 0                        |
|                    |            | 3       | 3         | 3                | 12.22                 | 12.16  | 12.37  | 13.00                               | 0                        |
|                    |            | 6       | 0         | 0                | 12.27                 | 12.15  | 12.42  | 13.00                               | 0                        |
|                    |            | 6       | 0         | 1                | 12.29                 | 12.15  | 12.41  | 13.00                               | 0                        |
|                    |            | 6       | 0         | 3                | 12.29                 | 12.17  | 12.41  | 13.00                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 12.26                 | 12.12  | 12.32  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.30                 | 12.16  | 12.37  | 13.00                               | 0                        |
|                    |            | 1       | 0         | 1                | 12.31                 | 12.16  | 12.38  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 1                | 12.33                 | 12.28  | 12.30  | 13.00                               | 0                        |
|                    |            | 1       | 0         | 3                | 12.30                 | 12.14  | 12.40  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 3                | 12.28                 | 12.21  | 12.39  | 13.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 12.23                 | 12.17  | 12.40  | 13.00                               | 0                        |
|                    |            | 3       | 3         | 3                | 12.28                 | 12.27  | 12.42  | 13.00                               | 0                        |
|                    |            | 5       | 0         | 0                | 12.28                 | 12.19  | 12.41  | 13.00                               | 0                        |
|                    |            | 5       | 0         | 1                | 12.30                 | 12.26  | 12.45  | 13.00                               | 0                        |
|                    |            | 5       | 0         | 3                | 12.24                 | 12.11  | 12.43  | 13.00                               | 0                        |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1711.5                | 1745   | 1778.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 131987                | 132322 | 132657 |                                     |                          |
| 3                  | QPSK       | 1       | 0         | 0                | 12.24                 | 12.12  | 12.35  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.28                 | 12.25  | 12.35  | 13.00                               | 0                        |
|                    |            | 1       | 0         | 1                | 12.28                 | 12.28  | 12.33  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 1                | 12.34                 | 12.15  | 12.33  | 13.00                               | 0                        |
|                    |            | 3       | 3         | 0                | 12.18                 | 12.19  | 12.33  | 13.00                               | 0                        |
|                    |            | 3       | 3         | 1                | 12.20                 | 12.23  | 12.38  | 13.00                               | 0                        |
|                    |            | 6       | 0         | 0                | 12.30                 | 12.21  | 12.32  | 13.00                               | 0                        |
|                    |            | 6       | 0         | 1                | 12.25                 | 12.27  | 12.37  | 13.00                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 12.26                 | 12.20  | 12.41  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.34                 | 12.24  | 12.35  | 13.00                               | 0                        |
|                    |            | 1       | 0         | 1                | 12.23                 | 12.23  | 12.43  | 13.00                               | 0                        |
|                    |            | 1       | 5         | 1                | 12.23                 | 12.22  | 12.39  | 13.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 12.28                 | 12.21  | 12.33  | 13.00                               | 0                        |
|                    |            | 3       | 3         | 1                | 12.25                 | 12.10  | 12.38  | 13.00                               | 0                        |
|                    |            | 5       | 0         | 0                | 12.30                 | 12.15  | 12.38  | 13.00                               | 0                        |
|                    |            | 5       | 0         | 1                | 12.25                 | 12.16  | 12.43  | 13.00                               | 0                        |

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| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|-------|-------------------------------------|--------------------------|
| Frequency (MHz)    |            |         |           | 1710.7           | 1745                  | 1779.3 |       |                                     |                          |
| Channel            |            |         |           | 131979           | 132322                | 132665 |       |                                     |                          |
| 1.4                | QPSK       | 1       | 0         | 0                | 12.31                 | 12.13  | 12.32 | 13.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.20                 | 12.19  | 12.33 | 13.00                               | 0                        |
|                    |            | 3       | 3         | 0                | 12.32                 | 12.22  | 12.42 | 13.00                               | 0                        |
|                    |            | 6       | 0         | 0                | 12.31                 | 12.23  | 12.43 | 13.00                               | 0                        |
|                    | 16-QAM     | 1       | 0         | 0                | 12.24                 | 12.26  | 12.40 | 13.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 12.28                 | 12.16  | 12.32 | 13.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 12.31                 | 12.14  | 12.38 | 13.00                               | 0                        |
|                    |            | 5       | 0         | 0                | 12.20                 | 12.20  | 12.45 | 13.00                               | 0                        |
| LTE Band 85_Cat.M1 |            |         |           |                  |                       |        |       |                                     |                          |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           | 700.5            | 707                   | 713.5  |       |                                     |                          |
| Channel            |            |         |           | 134027           | 134092                | 134157 |       |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 19.20                 | 19.22  | 19.15 | 20.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 19.13                 | 19.13  | 19.07 | 20.00                               | 0                        |
|                    |            | 1       | 0         | 1                | 19.13                 | 19.10  | 19.06 | 20.00                               | 0                        |
|                    |            | 1       | 5         | 1                | 19.12                 | 19.10  | 19.00 | 20.00                               | 0                        |
|                    |            | 1       | 0         | 3                | 19.12                 | 19.02  | 18.97 | 20.00                               | 0                        |
|                    |            | 1       | 5         | 3                | 19.08                 | 19.08  | 19.09 | 20.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 19.04                 | 19.08  | 19.04 | 20.00                               | 0                        |
|                    |            | 3       | 3         | 3                | 19.06                 | 19.07  | 19.08 | 20.00                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.15                 | 19.09  | 19.07 | 20.00                               | 0                        |
|                    |            | 6       | 0         | 1                | 19.01                 | 19.16  | 19.00 | 20.00                               | 0                        |
|                    | 6          | 0       | 3         | 19.09            | 19.14                 | 18.97  | 20.00 | 0                                   |                          |
|                    | 16-QAM     | 1       | 0         | 0                | 19.08                 | 19.08  | 19.00 | 20.00                               | 0                        |
|                    |            | 1       | 5         | 0                | 19.07                 | 19.14  | 19.06 | 20.00                               | 0                        |
|                    |            | 1       | 0         | 1                | 19.06                 | 19.03  | 19.03 | 20.00                               | 0                        |
|                    |            | 1       | 5         | 1                | 19.11                 | 19.10  | 19.07 | 20.00                               | 0                        |
|                    |            | 1       | 0         | 3                | 19.14                 | 19.14  | 18.95 | 20.00                               | 0                        |
|                    |            | 1       | 5         | 3                | 19.04                 | 19.05  | 18.97 | 20.00                               | 0                        |
|                    |            | 3       | 0         | 0                | 19.12                 | 19.15  | 19.09 | 20.00                               | 0                        |
|                    |            | 3       | 3         | 3                | 19.07                 | 19.06  | 18.94 | 20.00                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.07                 | 19.12  | 19.03 | 20.00                               | 0                        |
| 5                  |            | 0       | 1         | 19.15            | 19.12                 | 19.07  | 20.00 | 0                                   |                          |
| 5                  | 0          | 3       | 19.05     | 19.14            | 19.06                 | 20.00  | 0     |                                     |                          |

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# Notebook mode

| LTE Band 2_Cat.M1 |            |         |           |                  |                       |       |        |                                     |                          |
|-------------------|------------|---------|-----------|------------------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 1852.5                | 1880  | 1907.5 |                                     |                          |
| Channel           |            |         |           |                  | 18625                 | 18900 | 19175  |                                     |                          |
| 5                 | QPSK       | 1       | 0         | 0                | 20.14                 | 20.37 | 20.51  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.07                 | 20.20 | 20.41  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.08                 | 20.19 | 20.37  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.06                 | 20.18 | 20.39  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 3                | 20.00                 | 20.25 | 20.44  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 3                | 20.07                 | 20.29 | 20.47  | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.04                 | 20.31 | 20.40  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 3                | 20.01                 | 20.22 | 20.38  | 21.50                               | 0                        |
|                   |            | 6       | 0         | 0                | 19.07                 | 19.21 | 19.39  | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 1                | 19.08                 | 19.25 | 19.43  | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 3                | 18.97                 | 19.29 | 19.43  | 20.50                               | 0-1                      |
|                   | 16-QAM     | 1       | 0         | 0                | 20.07                 | 20.20 | 20.37  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.06                 | 20.26 | 20.41  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.01                 | 20.16 | 20.34  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.06                 | 20.30 | 20.39  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 3                | 20.07                 | 20.26 | 20.43  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 3                | 20.04                 | 20.24 | 20.40  | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.02                 | 20.29 | 20.45  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 3                | 20.03                 | 20.24 | 20.36  | 21.50                               | 0                        |
|                   |            | 5       | 0         | 0                | 19.08                 | 19.27 | 19.42  | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 1                | 18.97                 | 19.28 | 19.48  | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 3                | 19.02                 | 19.30 | 19.32  | 20.50                               | 0-1                      |
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 1851.5                | 1880  | 1908.5 |                                     |                          |
| Channel           |            |         |           |                  | 18615                 | 18900 | 19185  |                                     |                          |
| 3                 | QPSK       | 1       | 0         | 0                | 20.09                 | 20.21 | 20.42  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 19.94                 | 20.28 | 20.44  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.07                 | 20.26 | 20.38  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.05                 | 20.29 | 20.41  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 0                | 20.03                 | 20.25 | 20.36  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 1                | 20.02                 | 20.23 | 20.37  | 21.50                               | 0                        |
|                   |            | 6       | 0         | 0                | 18.99                 | 19.24 | 19.37  | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 1                | 19.01                 | 19.22 | 19.42  | 20.50                               | 0-1                      |
|                   | 16-QAM     | 1       | 0         | 0                | 20.09                 | 20.24 | 20.40  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.07                 | 20.28 | 20.45  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 19.96                 | 20.18 | 20.34  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.06                 | 20.25 | 20.38  | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.10                 | 20.18 | 20.39  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 1                | 20.04                 | 20.33 | 20.42  | 21.50                               | 0                        |
|                   |            | 5       | 0         | 0                | 19.02                 | 19.23 | 19.31  | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 1                | 19.05                 | 19.16 | 19.38  | 20.50                               | 0-1                      |

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| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz)   |            |         |           |                  | 1850.7                | 1880   | 1909.3 |                                     |                          |
| Channel           |            |         |           |                  | 18607                 | 18900  | 19193  |                                     |                          |
| 1.4               | QPSK       | 1       | 0         | 0                | 20.05                 | 20.22  | 20.40  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 19.95                 | 20.27  | 20.34  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 0                | 20.07                 | 20.33  | 20.40  | 21.50                               | 0                        |
|                   |            | 6       | 0         | 0                | 19.06                 | 19.22  | 19.41  | 20.50                               | 0-1                      |
|                   | 16-QAM     | 1       | 0         | 0                | 20.09                 | 20.26  | 20.42  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 19.96                 | 20.20  | 20.38  | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.08                 | 20.29  | 20.35  | 21.50                               | 0                        |
|                   |            | 5       | 0         | 0                | 19.04                 | 19.30  | 19.36  | 20.50                               | 0-1                      |
| LTE Band 4_Cat.M1 |            |         |           |                  |                       |        |        |                                     |                          |
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 1712.5                | 1732.5 | 1752.5 |                                     |                          |
| Channel           |            |         |           |                  | 19975                 | 20175  | 20375  |                                     |                          |
| 5                 | QPSK       | 1       | 0         | 0                | 20.61                 | 20.65  | 20.62  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.45                 | 20.53  | 20.46  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.51                 | 20.50  | 20.42  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.41                 | 20.45  | 20.51  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 3                | 20.42                 | 20.52  | 20.50  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 3                | 20.45                 | 20.49  | 20.50  | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.50                 | 20.55  | 20.55  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 3                | 20.55                 | 20.54  | 20.49  | 21.50                               | 0                        |
|                   |            | 6       | 0         | 0                | 19.46                 | 19.58  | 19.41  | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 1                | 19.47                 | 19.53  | 19.43  | 20.50                               | 0-1                      |
|                   | 16-QAM     | 6       | 0         | 3                | 19.48                 | 19.53  | 19.50  | 20.50                               | 0-1                      |
|                   |            | 1       | 0         | 0                | 20.47                 | 20.58  | 20.49  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.52                 | 20.59  | 20.48  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.49                 | 20.45  | 20.44  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.49                 | 20.54  | 20.50  | 21.50                               | 0                        |
|                   |            | 1       | 0         | 3                | 20.49                 | 20.53  | 20.42  | 21.50                               | 0                        |
|                   |            | 1       | 5         | 3                | 20.50                 | 20.54  | 20.46  | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.49                 | 20.48  | 20.44  | 21.50                               | 0                        |
|                   |            | 3       | 3         | 3                | 20.53                 | 20.48  | 20.49  | 21.50                               | 0                        |
|                   |            | 5       | 0         | 0                | 19.52                 | 19.48  | 19.52  | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 1                | 19.49                 | 19.53  | 19.41  | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 3                | 19.44                 | 19.58  | 19.55  | 20.50                               | 0-1                      |

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| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-----------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz) |            |         |           |                  | 1711.5                | 1732.5 | 1753.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 19965                 | 20175  | 20385  |                                     |                          |
| 3               | QPSK       | 1       | 0         | 0                | 20.54                 | 20.55  | 20.52  | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.52                 | 20.53  | 20.49  | 21.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 20.46                 | 20.59  | 20.52  | 21.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 20.48                 | 20.56  | 20.42  | 21.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 20.51                 | 20.57  | 20.52  | 21.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 20.49                 | 20.50  | 20.43  | 21.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 19.57                 | 19.55  | 19.56  | 20.50                               | 0-1                      |
|                 |            | 6       | 0         | 1                | 19.52                 | 19.60  | 19.48  | 20.50                               | 0-1                      |
|                 | 16-QAM     | 1       | 0         | 0                | 20.55                 | 20.47  | 20.44  | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.46                 | 20.49  | 20.56  | 21.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 20.51                 | 20.51  | 20.51  | 21.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 20.49                 | 20.55  | 20.49  | 21.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 20.50                 | 20.55  | 20.57  | 21.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 20.44                 | 20.57  | 20.41  | 21.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 19.55                 | 19.50  | 19.45  | 20.50                               | 0-1                      |
|                 |            | 5       | 0         | 1                | 19.49                 | 19.56  | 19.52  | 20.50                               | 0-1                      |
| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           |                  | 1710.7                | 1732.5 | 1754.3 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 19957                 | 20175  | 20393  |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 0                | 20.45                 | 20.53  | 20.47  | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.58                 | 20.56  | 20.47  | 21.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 20.48                 | 20.58  | 20.52  | 21.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 19.42                 | 19.50  | 19.47  | 20.50                               | 0-1                      |
|                 | 16-QAM     | 1       | 0         | 0                | 20.44                 | 20.52  | 20.45  | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.47                 | 20.58  | 20.49  | 21.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 20.49                 | 20.48  | 20.51  | 21.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 19.46                 | 19.52  | 19.57  | 20.50                               | 0-1                      |

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| LTE Band 5_Cat.M1 |            |         |           |                  |                       |       |       |                                     |                          |
|-------------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 826.5                 | 836.5 | 846.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel           |            |         |           |                  | 20425                 | 20525 | 20625 |                                     |                          |
| 5                 | QPSK       | 1       | 0         | 0                | 20.24                 | 19.91 | 19.93 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.14                 | 19.81 | 19.82 | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.07                 | 19.80 | 19.73 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.12                 | 19.77 | 19.78 | 21.50                               | 0                        |
|                   |            | 1       | 0         | 3                | 20.18                 | 19.83 | 19.80 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 3                | 20.05                 | 19.79 | 19.79 | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.13                 | 19.80 | 19.81 | 21.50                               | 0                        |
|                   |            | 3       | 3         | 3                | 20.10                 | 19.76 | 19.78 | 21.50                               | 0                        |
|                   |            | 6       | 0         | 0                | 19.17                 | 18.77 | 18.82 | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 1                | 19.18                 | 18.82 | 18.82 | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 3                | 19.15                 | 18.78 | 18.82 | 20.50                               | 0-1                      |
|                   | 16-QAM     | 1       | 0         | 0                | 20.13                 | 19.77 | 19.75 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.10                 | 19.78 | 19.75 | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.16                 | 19.87 | 19.77 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.15                 | 19.74 | 19.87 | 21.50                               | 0                        |
|                   |            | 1       | 0         | 3                | 20.21                 | 19.77 | 19.81 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 3                | 20.11                 | 19.75 | 19.81 | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.12                 | 19.87 | 19.76 | 21.50                               | 0                        |
|                   |            | 3       | 3         | 3                | 20.09                 | 19.82 | 19.82 | 21.50                               | 0                        |
|                   |            | 5       | 0         | 0                | 19.17                 | 18.81 | 18.81 | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 1                | 19.08                 | 18.72 | 18.79 | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 3                | 19.16                 | 18.74 | 18.76 | 20.50                               | 0-1                      |
| BW(MHz)           | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)   |            |         |           |                  | 825.5                 | 836.5 | 847.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel           |            |         |           |                  | 20415                 | 20525 | 20635 |                                     |                          |
| 3                 | QPSK       | 1       | 0         | 0                | 20.15                 | 19.77 | 19.73 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.16                 | 19.86 | 19.76 | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.13                 | 19.74 | 19.84 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.08                 | 19.82 | 19.81 | 21.50                               | 0                        |
|                   |            | 3       | 3         | 0                | 20.05                 | 19.83 | 19.80 | 21.50                               | 0                        |
|                   |            | 3       | 3         | 1                | 20.17                 | 19.81 | 19.76 | 21.50                               | 0                        |
|                   |            | 6       | 0         | 0                | 19.21                 | 18.73 | 18.81 | 20.50                               | 0-1                      |
|                   |            | 6       | 0         | 1                | 19.06                 | 18.81 | 18.82 | 20.50                               | 0-1                      |
|                   | 16-QAM     | 1       | 0         | 0                | 20.08                 | 19.79 | 19.85 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 0                | 20.18                 | 19.77 | 19.82 | 21.50                               | 0                        |
|                   |            | 1       | 0         | 1                | 20.10                 | 19.75 | 19.89 | 21.50                               | 0                        |
|                   |            | 1       | 5         | 1                | 20.12                 | 19.82 | 19.86 | 21.50                               | 0                        |
|                   |            | 3       | 0         | 0                | 20.10                 | 19.73 | 19.82 | 21.50                               | 0                        |
|                   |            | 3       | 3         | 1                | 20.09                 | 19.80 | 19.79 | 21.50                               | 0                        |
|                   |            | 5       | 0         | 0                | 19.17                 | 18.70 | 18.80 | 20.50                               | 0-1                      |
|                   |            | 5       | 0         | 1                | 19.12                 | 18.77 | 18.75 | 20.50                               | 0-1                      |

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| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|-------|-------------------------------------|--------------------------|
| Frequency (MHz)    |            |         |           | 1710.7           | 1732.5                | 1754.3 |       |                                     |                          |
| Channel            |            |         |           | 19957            | 20175                 | 20393  |       |                                     |                          |
| 1.4                | QPSK       | 1       | 0         | 0                | 20.11                 | 19.76  | 19.81 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.06                 | 19.88  | 19.85 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 0                | 20.10                 | 19.77  | 19.73 | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.11                 | 18.76  | 18.88 | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.15                 | 19.78  | 19.87 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.14                 | 19.85  | 19.78 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.11                 | 19.77  | 19.86 | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.12                 | 18.82  | 18.78 | 20.50                               | 0-1                      |
| LTE Band 12_Cat.M1 |            |         |           |                  |                       |        |       |                                     |                          |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           | 701.5            | 707.5                 | 713.5  |       |                                     |                          |
| Channel            |            |         |           | 23035            | 23095                 | 23155  |       |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 20.27                 | 20.22  | 19.92 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.09                 | 20.10  | 19.76 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.11                 | 20.05  | 19.81 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.09                 | 20.17  | 19.86 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.17                 | 20.14  | 19.73 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.16                 | 20.13  | 19.79 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.15                 | 20.10  | 19.75 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.15                 | 20.09  | 19.82 | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.19                 | 19.12  | 18.85 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.15                 | 19.13  | 18.77 | 20.50                               | 0-1                      |
|                    | 16-QAM     | 6       | 0         | 3                | 19.11                 | 19.14  | 18.83 | 20.50                               | 0-1                      |
|                    |            | 1       | 0         | 0                | 20.13                 | 20.12  | 19.81 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.21                 | 20.16  | 19.88 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.12                 | 20.11  | 19.80 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.14                 | 20.11  | 19.79 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.20                 | 20.13  | 19.80 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.22                 | 20.06  | 19.84 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.18                 | 20.06  | 19.77 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.13                 | 20.15  | 19.79 | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.15                 | 19.02  | 18.83 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.06                 | 19.13  | 18.79 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 3                | 19.18                 | 19.03  | 18.77 | 20.50                               | 0-1                      |

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| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-----------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| Frequency (MHz) |            |         |           |                  | 700.5                 | 707.5 | 714.5 |                                     |                          |
| Channel         |            |         |           |                  | 23025                 | 23095 | 23165 |                                     |                          |
| 3               | QPSK       | 1       | 0         | 0                | 20.14                 | 20.15 | 19.78 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.19                 | 20.16 | 19.76 | 21.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 20.22                 | 20.14 | 19.76 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 20.18                 | 20.14 | 19.77 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 20.12                 | 20.15 | 19.76 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 20.14                 | 20.13 | 19.73 | 21.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 19.15                 | 19.11 | 18.75 | 20.50                               | 0-1                      |
|                 |            | 6       | 0         | 1                | 19.16                 | 19.05 | 18.87 | 20.50                               | 0-1                      |
|                 | 16-QAM     | 1       | 0         | 0                | 20.20                 | 20.03 | 19.73 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.15                 | 20.06 | 19.76 | 21.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 20.06                 | 20.14 | 19.78 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 20.13                 | 20.10 | 19.77 | 21.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 20.19                 | 20.08 | 19.76 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 20.24                 | 20.15 | 19.87 | 21.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 19.13                 | 19.10 | 18.77 | 20.50                               | 0-1                      |
|                 |            | 5       | 0         | 1                | 19.16                 | 19.16 | 18.88 | 20.50                               | 0-1                      |
| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           |                  | 699.7                 | 707.5 | 715.3 |                                     |                          |
| Channel         |            |         |           |                  | 23017                 | 23095 | 23173 |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 0                | 20.11                 | 20.08 | 19.74 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.22                 | 20.07 | 19.80 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 20.12                 | 20.12 | 19.84 | 21.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 19.14                 | 19.18 | 18.82 | 20.50                               | 0-1                      |
|                 | 16-QAM     | 1       | 0         | 0                | 20.11                 | 20.11 | 19.89 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 20.11                 | 20.11 | 19.88 | 21.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 20.17                 | 20.11 | 19.79 | 21.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 19.23                 | 19.03 | 18.84 | 20.50                               | 0-1                      |

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| LTE Band 13_Cat.M1 |            |         |           |                  |                       |       |       |                                     |                          |
|--------------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 779.5                 | 782   | 784.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 23205                 | 23230 | 23255 |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 20.25                 | 20.22 | 20.21 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.10                 | 20.11 | 20.08 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.13                 | 20.20 | 20.16 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.12                 | 20.18 | 20.12 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.11                 | 20.19 | 20.09 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.14                 | 20.18 | 20.15 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.11                 | 20.15 | 20.06 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.11                 | 20.12 | 20.16 | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.16                 | 19.18 | 19.13 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.14                 | 19.08 | 19.07 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 3                | 19.16                 | 19.14 | 19.14 | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.19                 | 20.09 | 20.08 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.13                 | 20.13 | 20.00 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.13                 | 20.08 | 20.08 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.13                 | 20.07 | 20.11 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.08                 | 20.11 | 20.09 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.10                 | 20.15 | 20.13 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.15                 | 20.19 | 20.02 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.10                 | 20.12 | 20.06 | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.13                 | 19.16 | 19.08 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.13                 | 19.13 | 19.16 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 3                | 19.21                 | 19.12 | 19.18 | 20.50                               | 0-1                      |

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|--------------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 790.5                 | 793   | 795.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 23305                 | 23330 | 23355 |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 20.38                 | 20.34 | 20.31 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.20                 | 20.16 | 20.16 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.24                 | 20.28 | 20.18 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.29                 | 20.26 | 20.21 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.23                 | 20.16 | 20.19 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.26                 | 20.18 | 20.14 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.24                 | 20.25 | 20.19 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.21                 | 20.26 | 20.12 | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.19                 | 19.20 | 19.26 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.21                 | 19.23 | 19.21 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 3                | 19.33                 | 19.16 | 19.13 | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.22                 | 20.14 | 20.17 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.32                 | 20.20 | 20.15 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.26                 | 20.22 | 20.15 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.30                 | 20.28 | 20.20 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.23                 | 20.18 | 20.21 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.22                 | 20.21 | 20.12 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.24                 | 20.16 | 20.20 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.31                 | 20.21 | 20.25 | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.26                 | 19.27 | 19.21 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.24                 | 19.20 | 19.20 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 3                | 19.31                 | 19.17 | 19.21 | 20.50                               | 0-1                      |

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|--------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1852.5                | 1882.5 | 1912.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 26065                 | 26365  | 26665  |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 20.36                 | 20.47  | 20.77  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.21                 | 20.41  | 20.69  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.15                 | 20.37  | 20.73  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.25                 | 20.30  | 20.70  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.24                 | 20.29  | 20.61  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.25                 | 20.41  | 20.71  | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.24                 | 20.41  | 20.67  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.27                 | 20.36  | 20.73  | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.29                 | 19.40  | 19.66  | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.28                 | 19.33  | 19.66  | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 3                | 19.27                 | 19.35  | 19.70  | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.25                 | 20.27  | 20.63  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.30                 | 20.40  | 20.60  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.21                 | 20.34  | 20.66  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.17                 | 20.28  | 20.68  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.25                 | 20.28  | 20.72  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.22                 | 20.33  | 20.66  | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.24                 | 20.37  | 20.65  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.24                 | 20.41  | 20.58  | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.16                 | 19.33  | 19.69  | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.29                 | 19.29  | 19.61  | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 3                | 19.20                 | 19.43  | 19.58  | 20.50                               | 0-1                      |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1851.5                | 1882.5 | 1913.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel            |            |         |           |                  | 26055                 | 26365  | 26675  |                                     |                          |
| 3                  | QPSK       | 1       | 0         | 0                | 20.25                 | 20.28  | 20.67  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.33                 | 20.36  | 20.63  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.20                 | 20.29  | 20.63  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.26                 | 20.36  | 20.59  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 0                | 20.18                 | 20.36  | 20.66  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 1                | 20.25                 | 20.36  | 20.62  | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.24                 | 19.31  | 19.62  | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.15                 | 19.34  | 19.60  | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.23                 | 20.36  | 20.69  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.25                 | 20.27  | 20.65  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.20                 | 20.36  | 20.63  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.28                 | 20.28  | 20.68  | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.25                 | 20.37  | 20.67  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 1                | 20.28                 | 20.33  | 20.67  | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.30                 | 19.42  | 19.64  | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.21                 | 19.34  | 19.68  | 20.50                               | 0-1                      |

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| BW(MHz)                | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|------------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| Frequency (MHz)        |            |         |           |                  | 1850.7                | 1882.5 | 1914.3 |                                     |                          |
| Channel                |            |         |           |                  | 26047                 | 26365  | 26683  |                                     |                          |
| 1.4                    | QPSK       | 1       | 0         | 0                | 20.23                 | 20.32  | 20.62  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 0                | 20.27                 | 20.30  | 20.67  | 21.50                               | 0                        |
|                        |            | 3       | 3         | 0                | 20.18                 | 20.34  | 20.68  | 21.50                               | 0                        |
|                        |            | 6       | 0         | 0                | 19.25                 | 19.26  | 19.67  | 20.50                               | 0-1                      |
|                        | 16-QAM     | 1       | 0         | 0                | 20.30                 | 20.37  | 20.56  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 0                | 20.31                 | 20.30  | 20.58  | 21.50                               | 0                        |
|                        |            | 3       | 0         | 0                | 20.24                 | 20.35  | 20.68  | 21.50                               | 0                        |
|                        |            | 5       | 0         | 0                | 19.17                 | 19.34  | 19.64  | 20.50                               | 0-1                      |
| LTE Band 26_Cat.M1_FCC |            |         |           |                  |                       |        |        |                                     |                          |
| BW(MHz)                | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)        |            |         |           |                  | 816.5                 | 831.5  | 846.5  |                                     |                          |
| Channel                |            |         |           |                  | 26715                 | 26865  | 27015  |                                     |                          |
| 5                      | QPSK       | 1       | 0         | 0                | 19.74                 | 19.89  | 19.76  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 0                | 19.70                 | 19.82  | 19.55  | 21.50                               | 0                        |
|                        |            | 1       | 0         | 1                | 19.61                 | 19.82  | 19.63  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 1                | 19.61                 | 19.78  | 19.62  | 21.50                               | 0                        |
|                        |            | 1       | 0         | 3                | 19.67                 | 19.79  | 19.64  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 3                | 19.63                 | 19.76  | 19.62  | 21.50                               | 0                        |
|                        |            | 3       | 0         | 0                | 19.58                 | 19.72  | 19.70  | 21.50                               | 0                        |
|                        |            | 3       | 3         | 3                | 19.54                 | 19.83  | 19.66  | 21.50                               | 0                        |
|                        |            | 6       | 0         | 0                | 18.62                 | 18.78  | 18.66  | 20.50                               | 0-1                      |
|                        |            | 6       | 0         | 1                | 18.57                 | 18.81  | 18.63  | 20.50                               | 0-1                      |
|                        | 16-QAM     | 6       | 0         | 3                | 18.57                 | 18.81  | 18.69  | 20.50                               | 0-1                      |
|                        |            | 1       | 0         | 0                | 19.68                 | 19.77  | 19.64  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 0                | 19.56                 | 19.78  | 19.60  | 21.50                               | 0                        |
|                        |            | 1       | 0         | 1                | 19.62                 | 19.78  | 19.65  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 1                | 19.67                 | 19.70  | 19.60  | 21.50                               | 0                        |
|                        |            | 1       | 0         | 3                | 19.61                 | 19.69  | 19.64  | 21.50                               | 0                        |
|                        |            | 1       | 5         | 3                | 19.61                 | 19.74  | 19.65  | 21.50                               | 0                        |
|                        |            | 3       | 0         | 0                | 19.54                 | 19.73  | 19.62  | 21.50                               | 0                        |
|                        |            | 3       | 3         | 3                | 19.59                 | 19.77  | 19.72  | 21.50                               | 0                        |
|                        |            | 5       | 0         | 0                | 18.69                 | 18.75  | 18.62  | 20.50                               | 0-1                      |
|                        |            | 5       | 0         | 1                | 18.60                 | 18.76  | 18.65  | 20.50                               | 0-1                      |
|                        |            | 5       | 0         | 3                | 18.55                 | 18.74  | 18.55  | 20.50                               | 0-1                      |

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| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|-----------------|------------|---------|-----------|------------------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| Frequency (MHz) |            |         |           |                  | 815.5                 | 831.5 | 847.5 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 26705                 | 26865 | 27025 |                                     |                          |
| 3               | QPSK       | 1       | 0         | 0                | 19.55                 | 19.76 | 19.63 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 19.67                 | 19.74 | 19.63 | 21.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 19.66                 | 19.75 | 19.63 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 19.59                 | 19.76 | 19.56 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 19.67                 | 19.77 | 19.65 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 19.69                 | 19.78 | 19.58 | 21.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 18.68                 | 18.76 | 18.67 | 20.50                               | 0-1                      |
|                 |            | 6       | 0         | 1                | 18.62                 | 18.82 | 18.57 | 20.50                               | 0-1                      |
|                 | 16-QAM     | 1       | 0         | 0                | 19.58                 | 19.85 | 19.61 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 19.57                 | 19.82 | 19.64 | 21.50                               | 0                        |
|                 |            | 1       | 0         | 1                | 19.60                 | 19.83 | 19.59 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 1                | 19.67                 | 19.77 | 19.64 | 21.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 19.69                 | 19.83 | 19.71 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 1                | 19.56                 | 19.78 | 19.69 | 21.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 18.68                 | 18.79 | 18.56 | 20.50                               | 0-1                      |
|                 |            | 5       | 0         | 1                | 18.56                 | 18.77 | 18.68 | 20.50                               | 0-1                      |
| BW(MHz)         | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           |                  | 814.7                 | 831.5 | 848.3 | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Channel         |            |         |           |                  | 26697                 | 26865 | 27033 |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 0                | 19.66                 | 19.84 | 19.59 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 19.55                 | 19.70 | 19.62 | 21.50                               | 0                        |
|                 |            | 3       | 3         | 0                | 19.65                 | 19.78 | 19.61 | 21.50                               | 0                        |
|                 |            | 6       | 0         | 0                | 18.59                 | 18.73 | 18.72 | 20.50                               | 0-1                      |
|                 | 16-QAM     | 1       | 0         | 0                | 19.69                 | 19.72 | 19.65 | 21.50                               | 0                        |
|                 |            | 1       | 5         | 0                | 19.60                 | 19.85 | 19.71 | 21.50                               | 0                        |
|                 |            | 3       | 0         | 0                | 19.59                 | 19.76 | 19.62 | 21.50                               | 0                        |
|                 |            | 5       | 0         | 0                | 18.58                 | 18.78 | 18.67 | 20.50                               | 0-1                      |

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| LTE Band 66_Cat.M1 |            |         |           |                  |                       |        |        |                                     |                          |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1712.5                | 1745   | 1777.5 |                                     |                          |
| Channel            |            |         |           |                  | 131997                | 132322 | 132647 |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 20.25                 | 20.29  | 20.52  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.18                 | 20.13  | 20.42  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.16                 | 20.14  | 20.38  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.09                 | 20.15  | 20.40  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.16                 | 20.08  | 20.48  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.13                 | 20.15  | 20.40  | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.20                 | 20.23  | 20.34  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.10                 | 20.18  | 20.43  | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.13                 | 19.23  | 19.39  | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.08                 | 19.19  | 19.35  | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 3                | 19.11                 | 19.18  | 19.41  | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.19                 | 20.15  | 20.35  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.11                 | 20.16  | 20.44  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.12                 | 20.25  | 20.38  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.04                 | 20.12  | 20.42  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 20.11                 | 20.23  | 20.44  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.13                 | 20.20  | 20.36  | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.12                 | 20.14  | 20.45  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.14                 | 20.14  | 20.37  | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.10                 | 19.17  | 19.44  | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.17                 | 19.18  | 19.40  | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 3                | 19.14                 | 19.13  | 19.40  | 20.50                               | 0-1                      |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           |                  | 1711.5                | 1745   | 1778.5 |                                     |                          |
| Channel            |            |         |           |                  | 131987                | 132322 | 132657 |                                     |                          |
| 3                  | QPSK       | 1       | 0         | 0                | 20.04                 | 20.18  | 20.41  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.14                 | 20.17  | 20.44  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.13                 | 20.09  | 20.43  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.07                 | 20.17  | 20.36  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 0                | 20.17                 | 20.17  | 20.36  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 1                | 20.16                 | 20.19  | 20.36  | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.10                 | 19.15  | 19.35  | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.20                 | 19.14  | 19.41  | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.17                 | 20.10  | 20.40  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.13                 | 20.20  | 20.38  | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.12                 | 20.22  | 20.45  | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.11                 | 20.15  | 20.40  | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.13                 | 20.23  | 20.39  | 21.50                               | 0                        |
|                    |            | 3       | 3         | 1                | 20.08                 | 20.17  | 20.42  | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.06                 | 19.20  | 19.36  | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.13                 | 19.11  | 19.48  | 20.50                               | 0-1                      |

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| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
|--------------------|------------|---------|-----------|------------------|-----------------------|--------|-------|-------------------------------------|--------------------------|
| Frequency (MHz)    |            |         |           | 1710.7           | 1745                  | 1779.3 |       |                                     |                          |
| Channel            |            |         |           | 131979           | 132322                | 132665 |       |                                     |                          |
| 1.4                | QPSK       | 1       | 0         | 0                | 20.09                 | 20.14  | 20.34 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.12                 | 20.19  | 20.36 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 0                | 20.17                 | 20.14  | 20.43 | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.11                 | 19.12  | 19.39 | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.14                 | 20.21  | 20.41 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 20.20                 | 20.08  | 20.38 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 20.08                 | 20.16  | 20.37 | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 19.20                 | 19.17  | 19.38 | 20.50                               | 0-1                      |
| LTE Band 85_Cat.M1 |            |         |           |                  |                       |        |       |                                     |                          |
| BW(MHz)            | Modulation | RB Size | RB Offset | Narrowband Index | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz)    |            |         |           | 700.5            | 707                   | 713.5  |       |                                     |                          |
| Channel            |            |         |           | 134027           | 134092                | 134157 |       |                                     |                          |
| 5                  | QPSK       | 1       | 0         | 0                | 20.11                 | 20.22  | 20.01 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 19.99                 | 20.11  | 19.86 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.06                 | 20.15  | 19.86 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 20.01                 | 20.03  | 19.87 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 19.99                 | 20.07  | 19.87 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 19.94                 | 20.08  | 19.92 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 19.98                 | 20.08  | 19.92 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 20.05                 | 20.08  | 19.90 | 21.50                               | 0                        |
|                    |            | 6       | 0         | 0                | 19.03                 | 19.15  | 18.93 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 1                | 19.02                 | 19.01  | 18.91 | 20.50                               | 0-1                      |
|                    |            | 6       | 0         | 3                | 18.97                 | 19.15  | 18.92 | 20.50                               | 0-1                      |
|                    | 16-QAM     | 1       | 0         | 0                | 20.00                 | 20.10  | 19.93 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 0                | 19.95                 | 20.03  | 19.91 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 1                | 20.02                 | 20.03  | 19.88 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 1                | 19.98                 | 20.07  | 19.94 | 21.50                               | 0                        |
|                    |            | 1       | 0         | 3                | 19.92                 | 20.11  | 19.89 | 21.50                               | 0                        |
|                    |            | 1       | 5         | 3                | 20.02                 | 20.10  | 19.96 | 21.50                               | 0                        |
|                    |            | 3       | 0         | 0                | 19.99                 | 20.12  | 19.85 | 21.50                               | 0                        |
|                    |            | 3       | 3         | 3                | 19.93                 | 20.10  | 19.94 | 21.50                               | 0                        |
|                    |            | 5       | 0         | 0                | 18.95                 | 19.05  | 18.95 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 1                | 19.05                 | 19.09  | 18.92 | 20.50                               | 0-1                      |
|                    |            | 5       | 0         | 3                | 18.95                 | 19.13  | 18.88 | 20.50                               | 0-1                      |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## 6 SUMMARY OF RESULTS

### 6.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 6.2 Summary of SAR Results

#### WWAN\_Vendor1

| Band              | Position     | Distance (mm) | Channel | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|-------------------|--------------|---------------|---------|-------------|--|---------------------------|---------|-----------------------------|----------|-----|
|                   |              |               |         |             |  |                           |         | Measured                    | Reported |     |
| GPRS850 <1Dn4Up>  | Back Surface | 0             | 190     | 836.6       | 25.0   | 24.99                     | 100.23% | 0.063                       | 0.063    | -   |
| GPRS850 <1Dn4Up>  | Top Edge     | 0             | 128     | 824.2       | 25.0   | 24.51                     | 111.94% | 0.798                       | 0.893    | -   |
| GPRS850 <1Dn4Up>  | Top Edge     | 0             | 190     | 836.6       | 25.0   | 24.99                     | 100.23% | 0.887                       | 0.889    | -   |
| GPRS850 <1Dn4Up>  | Top Edge     | 0             | 251     | 848.8       | 25.0   | 24.23                     | 119.40% | 0.882                       | 1.053    | 001 |
| GPRS850 <1Dn4Up>  | Right Edge   | 0             | 190     | 836.6       | 25.0   | 24.99                     | 100.23% | 0.072                       | 0.072    | -   |
| GPRS1900 <1Dn4Up> | Back Surface | 0             | 512     | 1850.2      | 20.0   | 19.82                     | 104.23% | 0.081                       | 0.084    | -   |
| GPRS1900 <1Dn4Up> | Top Edge     | 0             | 512     | 1850.2      | 20.0   | 19.82                     | 104.23% | 0.863                       | 0.900    | -   |
| GPRS1900 <1Dn4Up> | Top Edge     | 0             | 661     | 1880        | 20.0   | 19.77                     | 105.44% | 0.891                       | 0.939    | 002 |
| GPRS1900 <1Dn4Up> | Top Edge     | 0             | 810     | 1909.8      | 20.0   | 19.65                     | 108.39% | 0.833                       | 0.903    | -   |
| GPRS1900 <1Dn4Up> | Right Edge   | 0             | 512     | 1850.2      | 20.0   | 19.82                     | 104.23% | 0.090                       | 0.094    | -   |

| Mode               | Bandwidth (MHz) | Modulation | RB Size | RB start | Narrowband Index | Position     | Distance (mm) | Channel | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|--------------------|-----------------|------------|---------|----------|------------------|--------------|---------------|---------|-------------|--|---------------------------|---------|-----------------------------|----------|-----|
|                    |                 |            |         |          |                  |              |               |         |             |  |                           |         | Measured                    | Reported |     |
| CAT.M1 Band 2      | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 18900   | 1880        | 12.00  | 11.48                     | 112.72% | 0.004                       | 0.005    | -   |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 18625   | 1852.5      | 12.00  | 11.45                     | 113.50% | 0.052                       | 0.059    | -   |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 18900   | 1880        | 12.00  | 11.48                     | 112.72% | 0.069                       | 0.078    | 003 |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 19175   | 1907.5      | 12.00  | 11.41                     | 114.55% | 0.061                       | 0.070    | -   |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 18900   | 1880        | 12.00  | 11.48                     | 112.72% | 0.008                       | 0.009    | -   |
| CAT.M1 Band 4      | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 20375   | 1752.5      | 13.00  | 12.66                     | 108.14% | 0.008                       | 0.009    | -   |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 19975   | 1712.5      | 13.00  | 12.48                     | 112.72% | 0.061                       | 0.069    | -   |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20175   | 1732.5      | 13.00  | 12.58                     | 110.15% | 0.069                       | 0.076    | -   |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20375   | 1752.5      | 13.00  | 12.66                     | 108.14% | 0.072                       | 0.078    | 004 |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 20375   | 1752.5      | 13.00  | 12.66                     | 108.14% | 0.011                       | 0.012    | -   |
| CAT.M1 Band 5      | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 20525   | 836.5       | 16.00  | 15.18                     | 120.78% | 0.007                       | 0.008    | -   |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20425   | 826.5       | 16.00  | 15.16                     | 121.34% | 0.041                       | 0.050    | -   |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20525   | 836.5       | 16.00  | 15.18                     | 120.78% | 0.048                       | 0.057    | 005 |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20625   | 846.5       | 16.00  | 15.11                     | 122.74% | 0.036                       | 0.044    | -   |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 20525   | 836.5       | 16.00  | 15.18                     | 120.78% | 0.011                       | 0.013    | -   |
| CAT.M1 Band 12     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 23095   | 707.5       | 13.50  | 12.65                     | 121.62% | 0.004                       | 0.005    | -   |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23035   | 701.5       | 13.50  | 12.64                     | 121.90% | 0.032                       | 0.039    | -   |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23095   | 707.5       | 13.50  | 12.65                     | 121.62% | 0.037                       | 0.045    | 006 |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23155   | 713.5       | 13.50  | 12.58                     | 123.59% | 0.029                       | 0.036    | -   |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 23095   | 707.5       | 13.50  | 12.65                     | 121.62% | 0.010                       | 0.012    | -   |
| CAT.M1 Band 13     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 23255   | 784.5       | 14.50  | 13.89                     | 115.08% | 0.006                       | 0.007    | -   |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23205   | 779.5       | 14.50  | 13.88                     | 115.35% | 0.043                       | 0.050    | -   |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23230   | 782         | 14.50  | 13.87                     | 115.61% | 0.049                       | 0.057    | -   |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23255   | 784.5       | 14.50  | 13.89                     | 115.08% | 0.052                       | 0.060    | 007 |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 23255   | 784.5       | 14.50  | 13.89                     | 115.08% | 0.012                       | 0.014    | -   |
| CAT.M1 Band 14     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 23305   | 790.5       | 14.50  | 13.84                     | 116.41% | 0.008                       | 0.009    | -   |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23305   | 790.5       | 14.50  | 13.84                     | 116.41% | 0.045                       | 0.053    | 008 |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23330   | 793         | 14.50  | 13.82                     | 116.95% | 0.041                       | 0.048    | -   |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23355   | 795.5       | 14.50  | 13.80                     | 117.49% | 0.038                       | 0.045    | -   |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 23305   | 790.5       | 14.50  | 13.84                     | 116.41% | 0.014                       | 0.016    | -   |
| CAT.M1 Band 25     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 26665   | 1912.5      | 12.50  | 12.21                     | 106.91% | 0.012                       | 0.013    | -   |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26065   | 1852.5      | 12.50  | 11.79                     | 117.76% | 0.072                       | 0.085    | -   |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26365   | 1882.5      | 12.50  | 11.91                     | 114.55% | 0.079                       | 0.090    | -   |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26665   | 1912.5      | 12.50  | 12.21                     | 106.91% | 0.084                       | 0.089    | 009 |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 26665   | 1912.5      | 12.50  | 12.21                     | 106.91% | 0.019                       | 0.020    | -   |
| CAT.M1 Band 26_FCC | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 26865   | 831.5       | 16.00  | 15.27                     | 118.30% | 0.006                       | 0.007    | -   |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26715   | 816.5       | 16.00  | 14.96                     | 127.06% | 0.042                       | 0.053    | -   |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26865   | 831.5       | 16.00  | 15.27                     | 118.30% | 0.047                       | 0.056    | 010 |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 27015   | 846.5       | 16.00  | 15.01                     | 125.80% | 0.041                       | 0.051    | -   |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 26865   | 831.5       | 16.00  | 15.27                     | 118.30% | 0.010                       | 0.012    | -   |
| CAT.M1 Band 66     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 132647  | 1777.5      | 13.00  | 12.49                     | 112.46% | 0.007                       | 0.008    | -   |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 131997  | 1712.5      | 13.00  | 12.39                     | 115.08% | 0.073                       | 0.084    | -   |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 132322  | 1745        | 13.00  | 12.31                     | 117.22% | 0.088                       | 0.103    | -   |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 132647  | 1777.5      | 13.00  | 12.49                     | 112.46% | 0.092                       | 0.104    | 012 |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 132647  | 1777.5      | 13.00  | 12.49                     | 112.46% | 0.013                       | 0.015    | -   |
| CAT.M1 Band 85     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 134092  | 707         | 20.00  | 19.22                     | 119.67% | 0.021                       | 0.026    | -   |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 134027  | 700.5       | 20.00  | 19.20                     | 120.23% | 0.161                       | 0.194    | -   |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 134092  | 707         | 20.00  | 19.22                     | 119.67% | 0.179                       | 0.214    | 013 |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 134157  | 713.5       | 20.00  | 19.15                     | 121.62% | 0.173                       | 0.210    | -   |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 134092  | 707         | 20.00  | 19.22                     | 119.67% | 0.029                       | 0.035    | -   |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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## WWAN\_Vendor2

| Band              | Position     | Distance (mm) | Channel | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|-------------------|--------------|---------------|---------|-------------|--|---------------------------|---------|-----------------------------|----------|-----|
|                   |              |               |         |             |  |                           |         | Measured                    | Reported |     |
| GPRS850 <1Dn4Up>  | Back Surface | 0             | 190     | 836.6       | 25.0   | 24.99                     | 100.23% | 0.067                       | 0.067    | -   |
| GPRS850 <1Dn4Up>  | Top Edge     | 0             | 128     | 824.2       | 25.0   | 24.51                     | 111.94% | 0.984                       | 1.102    | -   |
| GPRS850 <1Dn4Up>  | Top Edge     | 0             | 190     | 836.6       | 25.0   | 24.99                     | 100.23% | 0.932                       | 0.934    | -   |
| GPRS850 <1Dn4Up>  | Top Edge     | 0             | 251     | 848.8       | 25.0   | 24.23                     | 119.40% | 1.000                       | 1.194    | 014 |
| GPRS850 <1Dn4Up>  | Right Edge   | 0             | 190     | 836.6       | 25.0   | 24.99                     | 100.23% | 0.151                       | 0.151    | -   |
| GPRS1900 <1Dn4Up> | Back Surface | 0             | 512     | 1850.2      | 20.0   | 19.82                     | 104.23% | 0.086                       | 0.090    | -   |
| GPRS1900 <1Dn4Up> | Top Edge     | 0             | 512     | 1850.2      | 20.0   | 19.82                     | 104.23% | 0.908                       | 0.946    | -   |
| GPRS1900 <1Dn4Up> | Top Edge     | 0             | 661     | 1880        | 20.0   | 19.77                     | 105.44% | 0.969                       | 1.022    | 015 |
| GPRS1900 <1Dn4Up> | Top Edge     | 0             | 810     | 1909.8      | 20.0   | 19.65                     | 108.39% | 0.930                       | 1.008    | -   |
| GPRS1900 <1Dn4Up> | Right Edge   | 0             | 512     | 1850.2      | 20.0   | 19.82                     | 104.23% | 0.088                       | 0.092    | -   |

| Mode               | Bandwidth (MHz) | Modulation | RB Size | RB start | Narrowband Index | Position     | Distance (mm) | Channel | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|--------------------|-----------------|------------|---------|----------|------------------|--------------|---------------|---------|-------------|--|---------------------------|---------|-----------------------------|----------|-----|
|                    |                 |            |         |          |                  |              |               |         |             |  |                           |         | Measured                    | Reported |     |
| CAT.M1 Band 2      | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 18900   | 1880        | 12.00  | 11.48                     | 112.72% | 0.008                       | 0.009    | -   |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 18625   | 1852.5      | 12.00  | 11.45                     | 113.50% | 0.073                       | 0.083    | -   |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 18900   | 1880        | 12.00  | 11.48                     | 112.72% | 0.080                       | 0.090    | 016 |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 19175   | 1907.5      | 12.00  | 11.41                     | 114.55% | 0.072                       | 0.082    | -   |
| CAT.M1 Band 2      |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 18900   | 1880        | 12.00  | 11.48                     | 112.72% | 0.012                       | 0.014    | -   |
| CAT.M1 Band 4      | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 20375   | 1752.5      | 13.00  | 12.66                     | 108.14% | 0.009                       | 0.010    | -   |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 19975   | 1712.5      | 13.00  | 12.48                     | 112.72% | 0.091                       | 0.103    | 017 |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20175   | 1732.5      | 13.00  | 12.58                     | 110.15% | 0.078                       | 0.086    | -   |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20375   | 1752.5      | 13.00  | 12.66                     | 108.14% | 0.084                       | 0.091    | -   |
| CAT.M1 Band 4      |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 20375   | 1752.5      | 13.00  | 12.66                     | 108.14% | 0.013                       | 0.014    | -   |
| CAT.M1 Band 5      | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 20525   | 836.5       | 16.00  | 15.18                     | 120.78% | 0.009                       | 0.011    | -   |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20425   | 826.5       | 16.00  | 15.16                     | 121.34% | 0.064                       | 0.078    | 018 |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20525   | 836.5       | 16.00  | 15.18                     | 120.78% | 0.061                       | 0.074    | -   |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 20625   | 846.5       | 16.00  | 15.11                     | 122.74% | 0.063                       | 0.077    | -   |
| CAT.M1 Band 5      |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 20525   | 836.5       | 16.00  | 15.18                     | 120.78% | 0.016                       | 0.019    | -   |
| CAT.M1 Band 12     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 23095   | 707.5       | 13.50  | 12.65                     | 121.62% | 0.005                       | 0.006    | -   |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23035   | 701.5       | 13.50  | 12.64                     | 121.90% | 0.035                       | 0.043    | -   |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23095   | 707.5       | 13.50  | 12.65                     | 121.62% | 0.039                       | 0.047    | -   |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23155   | 713.5       | 13.50  | 12.58                     | 123.59% | 0.040                       | 0.050    | 019 |
| CAT.M1 Band 12     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 23095   | 707.5       | 13.50  | 12.65                     | 121.62% | 0.011                       | 0.013    | -   |
| CAT.M1 Band 13     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 23255   | 784.5       | 14.50  | 13.89                     | 115.08% | 0.008                       | 0.009    | -   |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23205   | 779.5       | 14.50  | 13.88                     | 115.35% | 0.049                       | 0.057    | -   |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23230   | 782         | 14.50  | 13.87                     | 115.61% | 0.046                       | 0.053    | -   |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23255   | 784.5       | 14.50  | 13.89                     | 115.08% | 0.057                       | 0.066    | 020 |
| CAT.M1 Band 13     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 23255   | 784.5       | 14.50  | 13.89                     | 115.08% | 0.015                       | 0.017    | -   |
| CAT.M1 Band 14     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 23305   | 790.5       | 14.50  | 13.84                     | 116.41% | 0.006                       | 0.007    | -   |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23305   | 790.5       | 14.50  | 13.84                     | 116.41% | 0.058                       | 0.067    | 021 |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23330   | 793         | 14.50  | 13.82                     | 116.95% | 0.044                       | 0.051    | -   |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 23355   | 795.5       | 14.50  | 13.80                     | 117.49% | 0.048                       | 0.056    | -   |
| CAT.M1 Band 14     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 23305   | 790.5       | 14.50  | 13.84                     | 116.41% | 0.009                       | 0.010    | -   |
| CAT.M1 Band 25     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 26665   | 1912.5      | 12.50  | 12.21                     | 106.91% | 0.008                       | 0.009    | -   |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26065   | 1852.5      | 12.50  | 11.79                     | 117.76% | 0.085                       | 0.100    | -   |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26365   | 1882.5      | 12.50  | 11.91                     | 114.55% | 0.090                       | 0.103    | 022 |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26665   | 1912.5      | 12.50  | 12.21                     | 106.91% | 0.086                       | 0.092    | -   |
| CAT.M1 Band 25     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 26665   | 1912.5      | 12.50  | 12.21                     | 106.91% | 0.010                       | 0.011    | -   |
| CAT.M1 Band 26_FCC | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 26865   | 831.5       | 16.00  | 15.27                     | 118.30% | 0.009                       | 0.011    | -   |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26715   | 816.5       | 16.00  | 14.96                     | 127.06% | 0.064                       | 0.081    | 023 |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 26865   | 831.5       | 16.00  | 15.27                     | 118.30% | 0.058                       | 0.069    | -   |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 27015   | 846.5       | 16.00  | 15.01                     | 125.60% | 0.060                       | 0.075    | -   |
| CAT.M1 Band 26_FCC |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 26865   | 831.5       | 16.00  | 15.27                     | 118.30% | 0.012                       | 0.014    | -   |
| CAT.M1 Band 66     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 132647  | 1777.5      | 13.00  | 12.49                     | 112.46% | 0.012                       | 0.013    | -   |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 131997  | 1712.5      | 13.00  | 12.39                     | 115.08% | 0.108                       | 0.124    | -   |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 132322  | 1745        | 13.00  | 12.31                     | 117.22% | 0.104                       | 0.122    | -   |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 132647  | 1777.5      | 13.00  | 12.49                     | 112.46% | 0.111                       | 0.125    | 025 |
| CAT.M1 Band 66     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 132647  | 1777.5      | 13.00  | 12.49                     | 112.46% | 0.018                       | 0.020    | -   |
| CAT.M1 Band 85     | 5MHz            | QPSK       | 1       | 0        | 0                | Back Surface | 0             | 134092  | 707         | 20.00  | 19.22                     | 119.67% | 0.026                       | 0.031    | -   |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 134027  | 700.5       | 20.00  | 19.20                     | 120.23% | 0.190                       | 0.228    | -   |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 134092  | 707         | 20.00  | 19.22                     | 119.67% | 0.217                       | 0.260    | 026 |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Top Edge     | 0             | 134157  | 713.5       | 20.00  | 19.15                     | 121.62% | 0.200                       | 0.243    | -   |
| CAT.M1 Band 85     |                 |            | 1       | 0        | 0                | Right Edge   | 0             | 134092  | 707         | 20.00  | 19.22                     | 119.67% | 0.029                       | 0.035    | -   |

## Note:

Reported SAR = measured SAR \* Power scaling \* Duty cycle scaling

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### 6.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

### 6.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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## 7 SIMULTANEOUS TRANSMISSION ANALYSIS

### 7.1 Simultaneous Transmission Scenarios:

| Simultaneous Transmit Configurations  | Body |
|---|------|
| WWAN + WLAN 2.4GHz Ant2 + BT Ant1   | Yes  |
| WWAN + WLAN 2.4GHz Ant2 + WLAN 2.4GHz Ant1  | Yes  |
| WWAN + WLAN 5GHz Ant2 + BT Ant1   | Yes  |
| WWAN + WLAN 5GHz Ant2 + WLAN 5GHz Ant1  | Yes  |
| WWAN + WLAN 5GHz Ant2 + WLAN 5GHz Ant1 + BT Ant1  | Yes  |
| WWAN + WLAN 6GHz Ant2 + BT Ant1   | Yes  |
| WWAN + WLAN 6GHz Ant2 + WLAN 6GHz Ant1  | Yes  |
| WWAN + WLAN 6GHz Ant2 + WLAN 6GHz Ant1 + BT Ant1  | Yes  |
| All of WLAN/BT SAR data can be referred to Intel SAR test report, Report No.: 231128-04.TR02 and 231128-04.TR03, and these results are used for simultaneous transmission analysis. |      |

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## 7.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

## 7.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by  $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and  $R_i$  is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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## Simultaneous Transmission Combination

### Vendor1

| WWAN Band          | Exposure Position | Reported SAR  |                   |                   |                 |                 |                 |                 |                 | Scenario 1 | Scenario 2 | Scenario 3 | Scenario 4 | Scenario 5 | Scenario 6 | Scenario 7 | Scenario 8 |       |
|--------------------|-------------------|---------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|
|                    |                   | 1             | 2                 | 3                 | 4               | 5               | 6               | 7               | 8               | 1+2+3      | 1+3+6      | 1+4+5      | 1+6+8      | 1+4+5+6    | 1+7+8      | 1+6+8      | 1+6+7+8    |       |
|                    |                   | WWAN          | 2.4GHz WLAN Ant 1 | 2.4GHz WLAN Ant 2 | 5GHz WLAN Ant 1 | 5GHz WLAN Ant 2 | Bluetooth Ant 2 | 6GHz WLAN Ant 1 | 6GHz WLAN Ant 2 | ISAR=1.6   |            |            |            |            |            |            |            |       |
|                    |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   |                 |            |            |            |            |            |            |            |            |       |
| GPRS850 <10m4Up>   | Back Surface      | 0             | 0.063             |                   |                 |                 |                 |                 | 0.063           | 0.063      | 0.063      | 0.063      | 0.063      | 0.063      | 0.063      | 0.063      | 0.063      |       |
|                    | Top Edge          | 0             | 1.053             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 2.783      | 2.583      | 3.893      | 2.643      | 4.033      | 3.483      | 2.763      | 3.823 |
|                    | Right Edge        | 0             | 0.072             |                   |                 |                 |                 |                 | 0.072           | 0.072      | 0.072      | 0.072      | 0.072      | 0.072      | 0.072      | 0.072      | 0.072      | 0.072 |
| GPRS1900 <10m4Up>  | Back Surface      | 0             | 0.084             |                   |                 |                 |                 |                 | 0.084           | 0.084      | 0.084      | 0.084      | 0.084      | 0.084      | 0.084      | 0.084      | 0.084      | 0.084 |
|                    | Top Edge          | 0             | 0.939             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 3.059      | 2.859      | 4.079      | 2.699      | 4.059      | 3.459      | 2.759      | 3.799 |
|                    | Right Edge        | 0             | 0.094             |                   |                 |                 |                 |                 | 0.094           | 0.094      | 0.094      | 0.094      | 0.094      | 0.094      | 0.094      | 0.094      | 0.094      | 0.094 |
| CAT.M1 Band 2      | Back Surface      | 0             | 0.005             |                   |                 |                 |                 |                 | 0.005           | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005 |
|                    | Top Edge          | 0             | 0.078             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.868      | 1.668      | 2.718      | 1.868      | 3.058      | 2.508      | 1.768      | 2.848 |
|                    | Right Edge        | 0             | 0.009             |                   |                 |                 |                 |                 | 0.009           | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009 |
| CAT.M1 Band 4      | Back Surface      | 0             | 0.009             |                   |                 |                 |                 |                 | 0.009           | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009 |
|                    | Top Edge          | 0             | 0.078             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.868      | 1.668      | 2.718      | 1.868      | 3.058      | 2.508      | 1.768      | 2.848 |
|                    | Right Edge        | 0             | 0.012             |                   |                 |                 |                 |                 | 0.012           | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012 |
| CAT.M1 Band 5      | Back Surface      | 0             | 0.008             |                   |                 |                 |                 |                 | 0.008           | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008 |
|                    | Top Edge          | 0             | 0.057             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.787      | 1.587      | 2.687      | 1.847      | 3.037      | 2.487      | 1.787      | 2.827 |
|                    | Right Edge        | 0             | 0.013             |                   |                 |                 |                 |                 | 0.013           | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013 |
| CAT.M1 Band 12     | Back Surface      | 0             | 0.005             |                   |                 |                 |                 |                 | 0.005           | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005      | 0.005 |
|                    | Top Edge          | 0             | 0.045             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.776      | 1.576      | 2.686      | 1.836      | 3.026      | 2.476      | 1.736      | 2.816 |
|                    | Right Edge        | 0             | 0.012             |                   |                 |                 |                 |                 | 0.012           | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012 |
| CAT.M1 Band 13     | Back Surface      | 0             | 0.007             |                   |                 |                 |                 |                 | 0.007           | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007 |
|                    | Top Edge          | 0             | 0.060             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.799      | 1.599      | 2.709      | 1.849      | 3.039      | 2.489      | 1.749      | 2.829 |
|                    | Right Edge        | 0             | 0.014             |                   |                 |                 |                 |                 | 0.014           | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014 |
| CAT.M1 Band 14     | Back Surface      | 0             | 0.009             |                   |                 |                 |                 |                 | 0.009           | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009 |
|                    | Top Edge          | 0             | 0.053             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.783      | 1.583      | 2.683      | 1.843      | 3.033      | 2.483      | 1.783      | 2.823 |
|                    | Right Edge        | 0             | 0.016             |                   |                 |                 |                 |                 | 0.016           | 0.016      | 0.016      | 0.016      | 0.016      | 0.016      | 0.016      | 0.016      | 0.016      | 0.016 |
| CAT.M1 Band 25     | Back Surface      | 0             | 0.013             |                   |                 |                 |                 |                 | 0.013           | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013 |
|                    | Top Edge          | 0             | 0.089             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.819      | 1.619      | 2.729      | 1.879      | 3.069      | 2.519      | 1.799      | 2.859 |
|                    | Right Edge        | 0             | 0.020             |                   |                 |                 |                 |                 | 0.020           | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020 |
| CAT.M1 Band 26_FCC | Back Surface      | 0             | 0.007             |                   |                 |                 |                 |                 | 0.007           | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007 |
|                    | Top Edge          | 0             | 0.056             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.796      | 1.596      | 2.696      | 1.846      | 3.036      | 2.486      | 1.766      | 2.826 |
|                    | Right Edge        | 0             | 0.012             |                   |                 |                 |                 |                 | 0.012           | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012      | 0.012 |
| CAT.M1 Band 66     | Back Surface      | 0             | 0.008             |                   |                 |                 |                 |                 | 0.008           | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008      | 0.008 |
|                    | Top Edge          | 0             | 0.104             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.834      | 1.634      | 2.744      | 1.894      | 3.084      | 2.534      | 1.814      | 2.874 |
|                    | Right Edge        | 0             | 0.015             |                   |                 |                 |                 |                 | 0.015           | 0.015      | 0.015      | 0.015      | 0.015      | 0.015      | 0.015      | 0.015      | 0.015      | 0.015 |
| CAT.M1 Band 85     | Back Surface      | 0             | 0.026             |                   |                 |                 |                 |                 | 0.026           | 0.026      | 0.026      | 0.026      | 0.026      | 0.026      | 0.026      | 0.026      | 0.026      | 0.026 |
|                    | Top Edge          | 0             | 0.214             | 0.540             | 1.190           | 1.190           | 1.450           | 0.340           | 1.060           | 1.370      | 1.944      | 1.744      | 2.854      | 2.004      | 3.194      | 2.544      | 1.824      | 2.884 |
|                    | Right Edge        | 0             | 0.035             |                   |                 |                 |                 |                 | 0.035           | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035 |

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## SPLSR Vendor1

| Scenario 1: |                    |                  |                  |        |       |             |  |       |                                    |
|-------------|--------------------|------------------|------------------|--------|-------|-------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |        |       | ΣSAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y      | z     |             |  |       |                                    |
| Top edge    | WLAN 2.4G Ant1     | 0.540            | -0.43            | -12.27 | -0.30 | -           | -                                      | -     | -                                  |
|             | GPRS 850           | 1.053            | -0.45            | 10.69  | -0.31 | 1.593       | 229.60                                 | 0.009 | SPLSR ≤ 0.04,<br>Not required      |
|             | GPRS 1900          | 0.939            | -0.30            | 9.92   | -0.32 | 1.479       | 221.90                                 | 0.008 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 2      | 0.078            | -0.44            | 10.07  | -0.30 | 0.618       | 223.40                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 4      | 0.078            | -0.45            | 9.76   | -0.31 | 0.618       | 220.30                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 5      | 0.057            | -0.61            | 10.85  | -0.31 | 0.597       | 231.21                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 12     | 0.045            | -0.45            | 8.45   | -0.31 | 0.585       | 207.20                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 13     | 0.060            | -0.45            | 10.85  | -0.31 | 0.600       | 231.20                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 14     | 0.053            | -0.45            | 10.85  | -0.31 | 0.593       | 231.20                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 25     | 0.089            | -0.44            | 10.21  | -0.31 | 0.629       | 224.80                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 26_FCC | 0.056            | -0.61            | 10.85  | -0.30 | 0.596       | 231.21                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 66     | 0.104            | -0.45            | 9.76   | -0.31 | 0.644       | 220.30                                 | 0.002 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 85     | 0.214            | -0.45            | 8.45   | -0.31 | 0.754       | 207.20                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |

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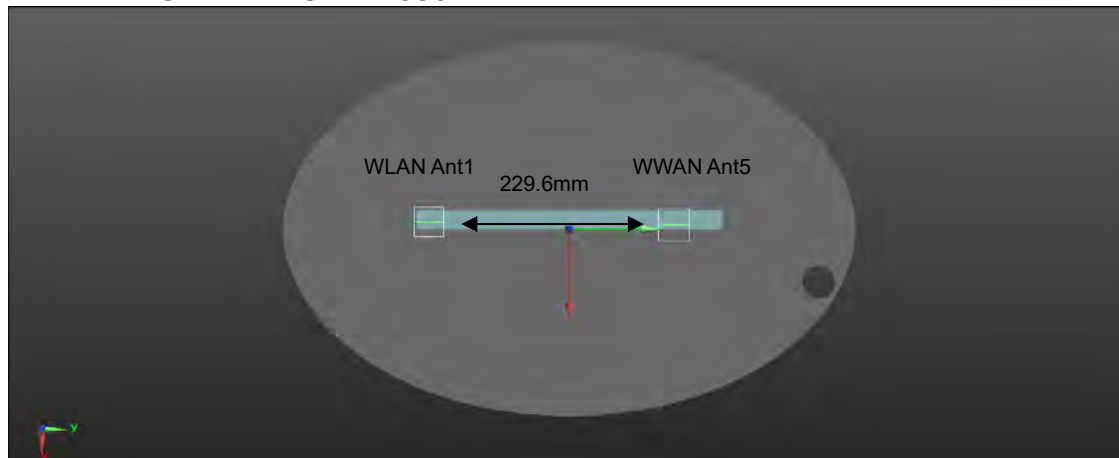
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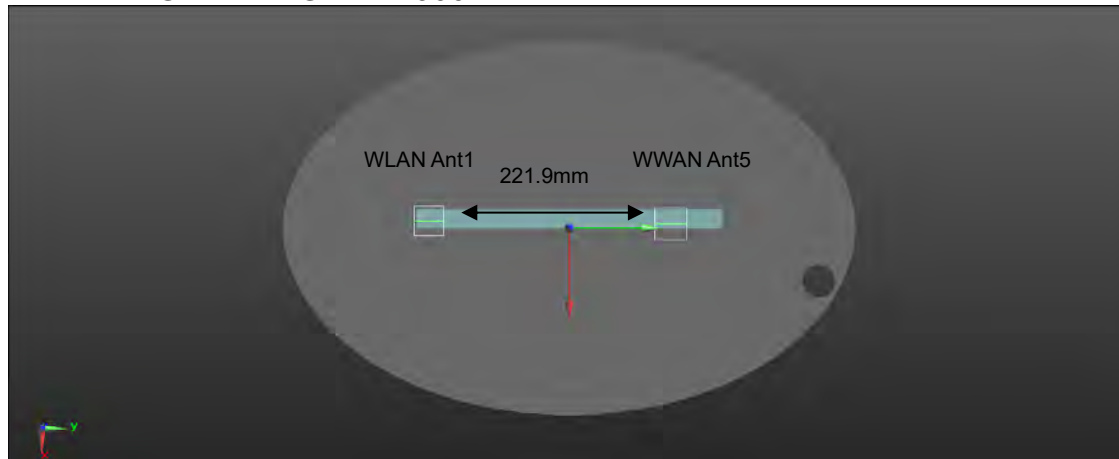
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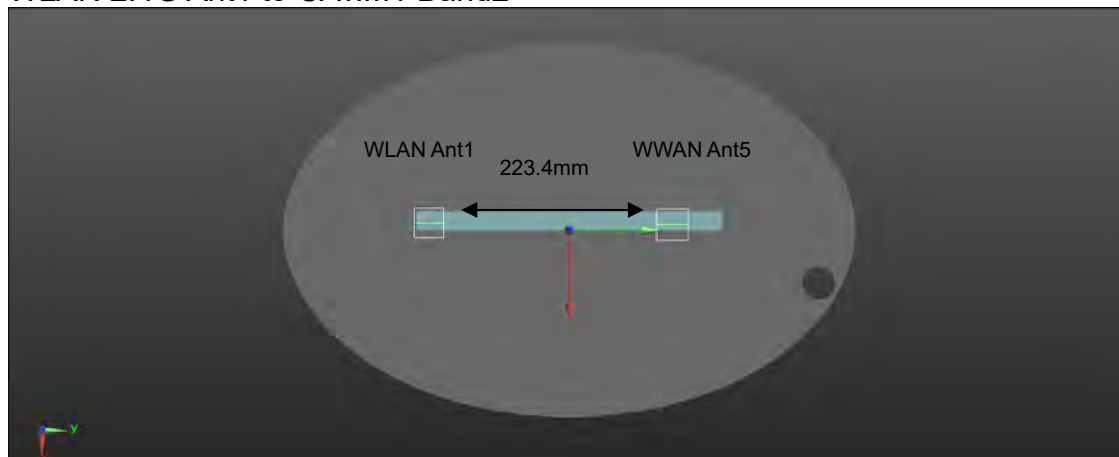
## WLAN 2.4G Ant1 to GPRS 850



## WLAN 2.4G Ant1 to GPRS 1900



## WLAN 2.4G Ant1 to CAT.M1 Band2



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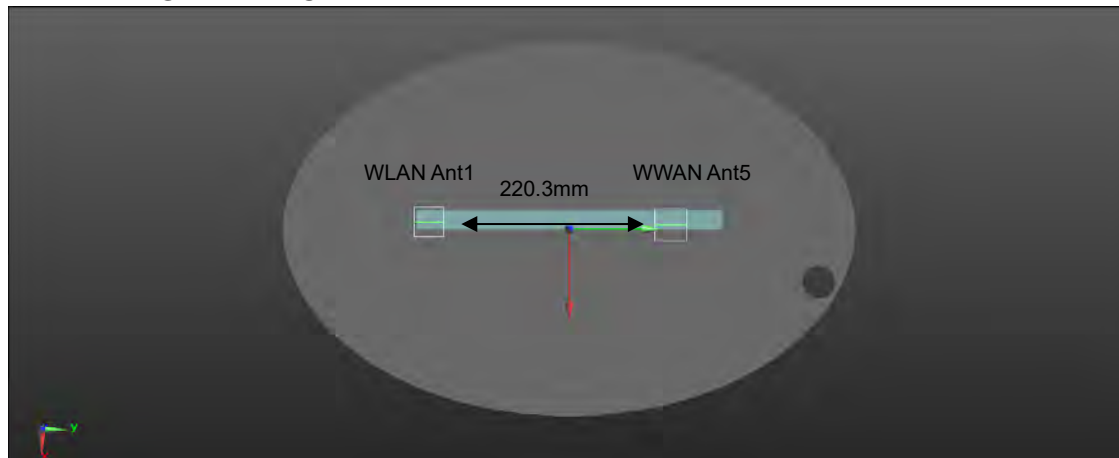
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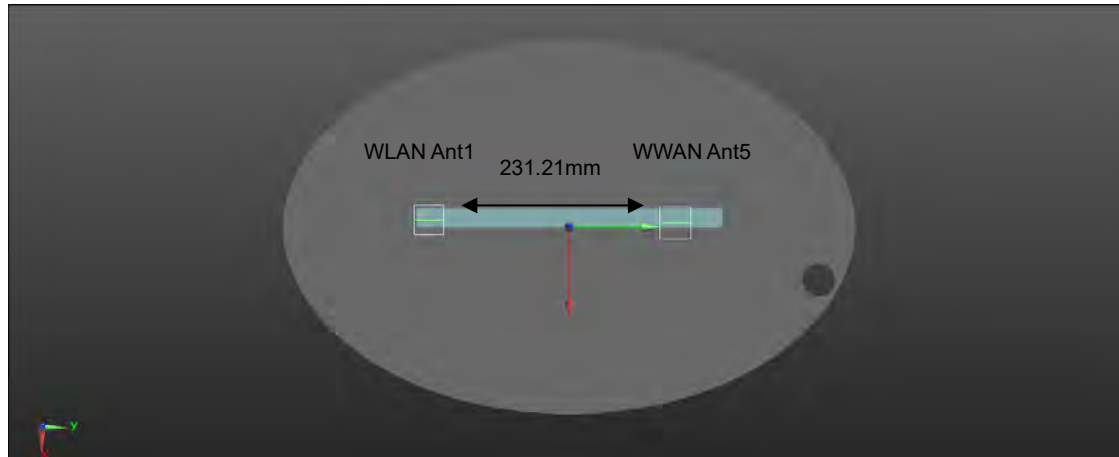
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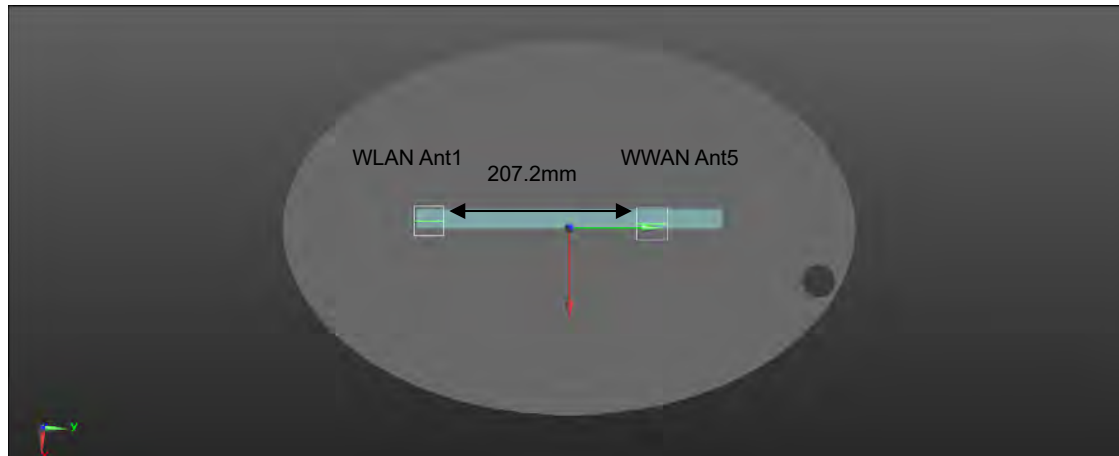
## WLAN 2.4G Ant1 to CAT.M1 Band4



## WLAN 2.4G Ant1 to CAT.M1 Band5



## WLAN 2.4G Ant1 to CAT.M1 Band12



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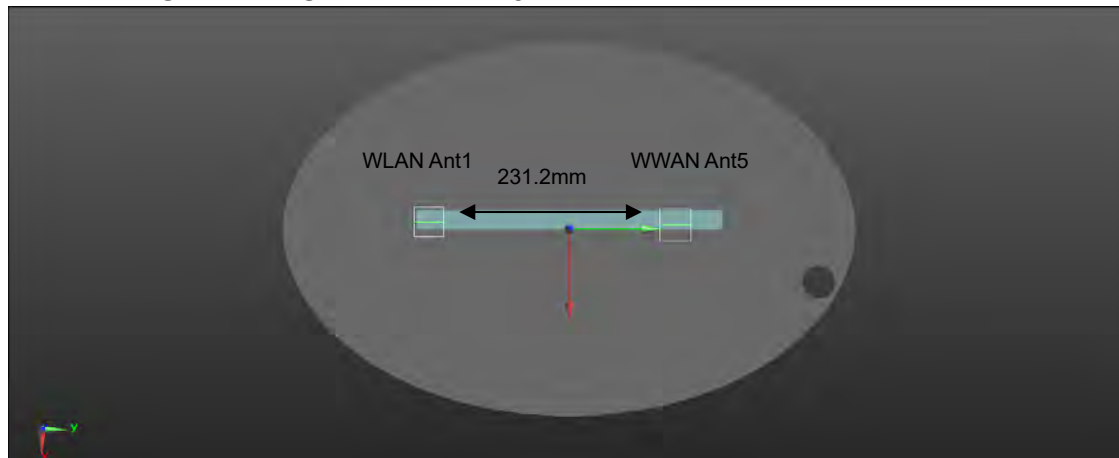
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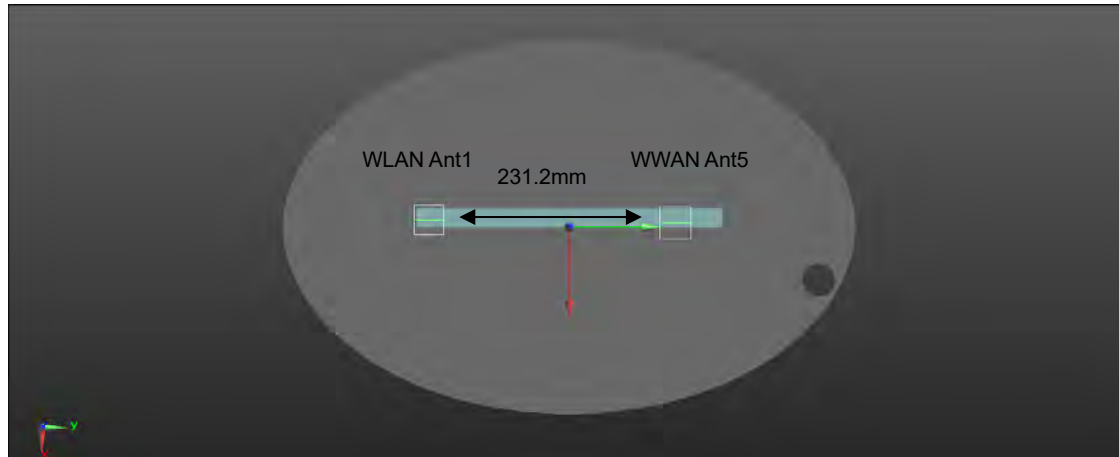
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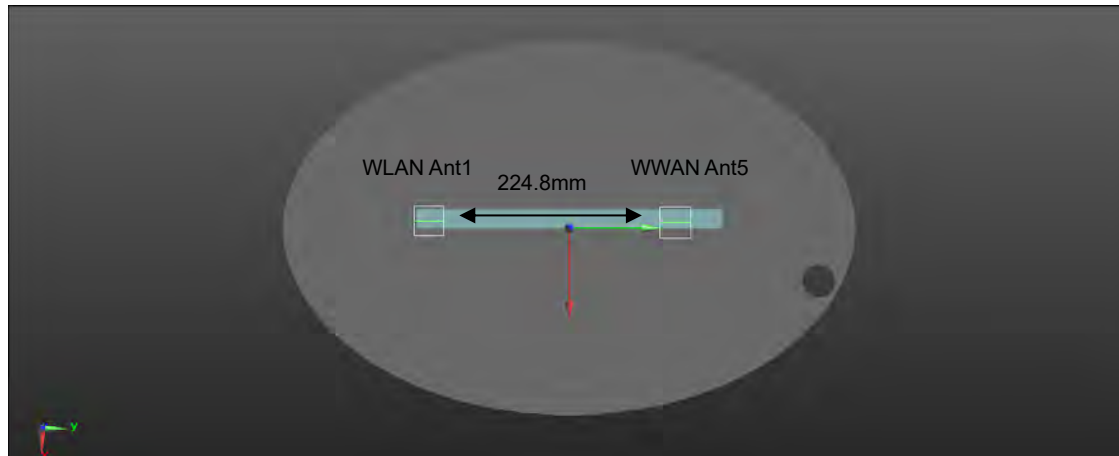
WLAN 2.4G Ant1 to CAT.M1 Band13



WLAN 2.4G Ant1 to CAT.M1 Band14



WLAN 2.4G Ant1 to CAT.M1 Band25



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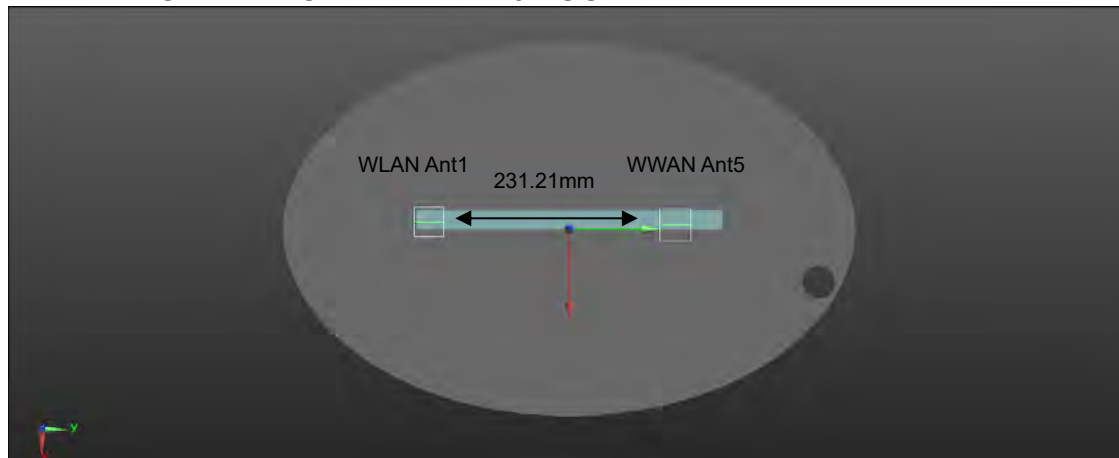
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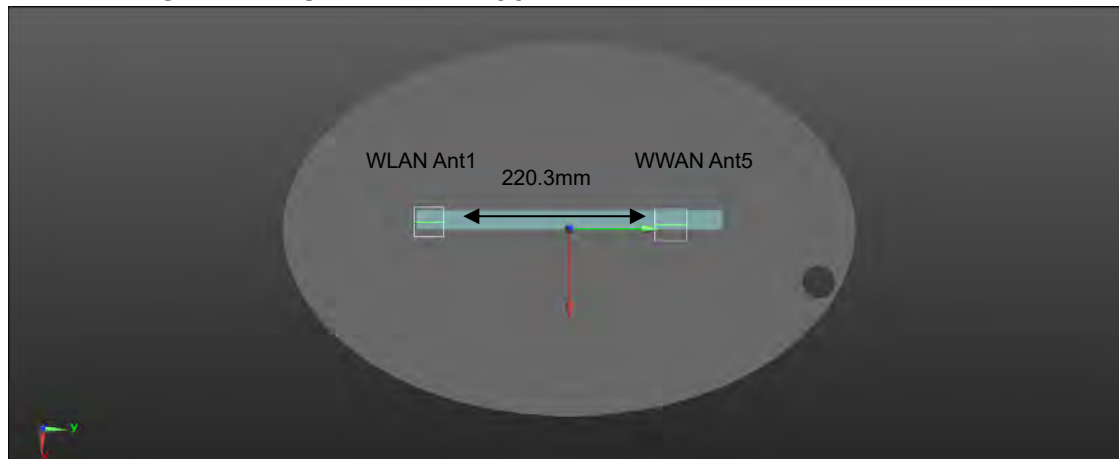
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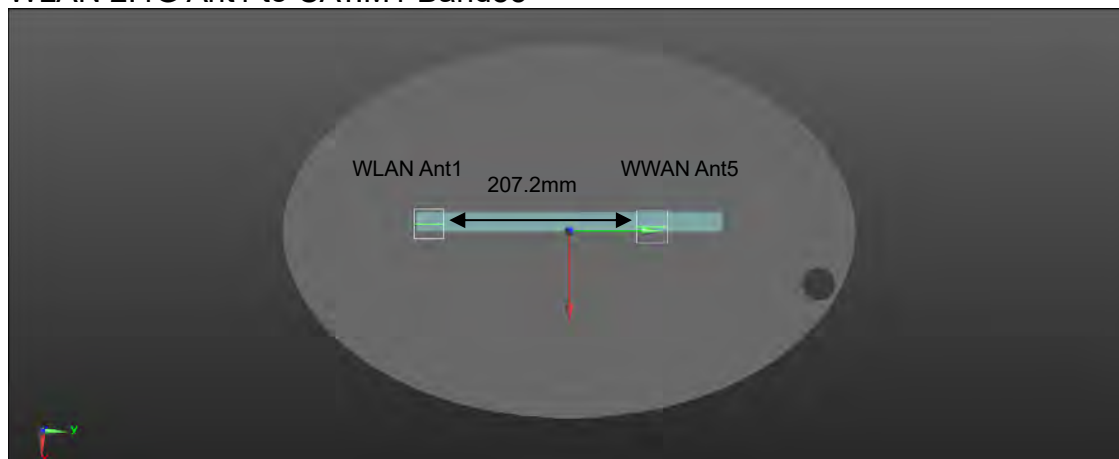
## WLAN 2.4G Ant1 to CAT.M1 Band26 FCC



## WLAN 2.4G Ant1 to CAT.M1 Band66



## WLAN 2.4G Ant1 to CAT.M1 Band85



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| Scenario 1: |                    |                  |                  |       |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|-------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |       |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y     | z     |                     |  |       |                                    |
| Top edge    | WLAN 2.4G Ant2     | 1.190            | -0.53            | -5.36 | 0.33  | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.053            | -0.45            | 10.69 | -0.31 | 2.243               | 160.63                                 | 0.021 | SPLSR $\leq$ 0.04, Not required    |
|             | GPRS 1900          | 0.939            | -0.30            | 9.92  | -0.32 | 2.129               | 152.95                                 | 0.020 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 2      | 0.078            | -0.44            | 10.07 | -0.30 | 1.268               | 154.43                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 4      | 0.078            | -0.45            | 9.76  | -0.31 | 1.268               | 151.33                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 5      | 0.057            | -0.61            | 10.85 | -0.31 | 1.247               | 162.23                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 12     | 0.045            | -0.45            | 8.45  | -0.31 | 1.235               | 138.25                                 | 0.010 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 13     | 0.060            | -0.45            | 10.85 | -0.31 | 1.250               | 162.23                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 14     | 0.053            | -0.45            | 10.85 | -0.31 | 1.243               | 162.23                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 25     | 0.089            | -0.44            | 10.21 | -0.31 | 1.279               | 155.83                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 26_FCC | 0.056            | -0.61            | 10.85 | -0.30 | 1.246               | 162.22                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 66     | 0.104            | -0.45            | 9.76  | -0.31 | 1.294               | 151.34                                 | 0.010 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 85     | 0.214            | -0.45            | 8.45  | -0.31 | 1.404               | 138.25                                 | 0.012 | SPLSR $\leq$ 0.04, Not required    |

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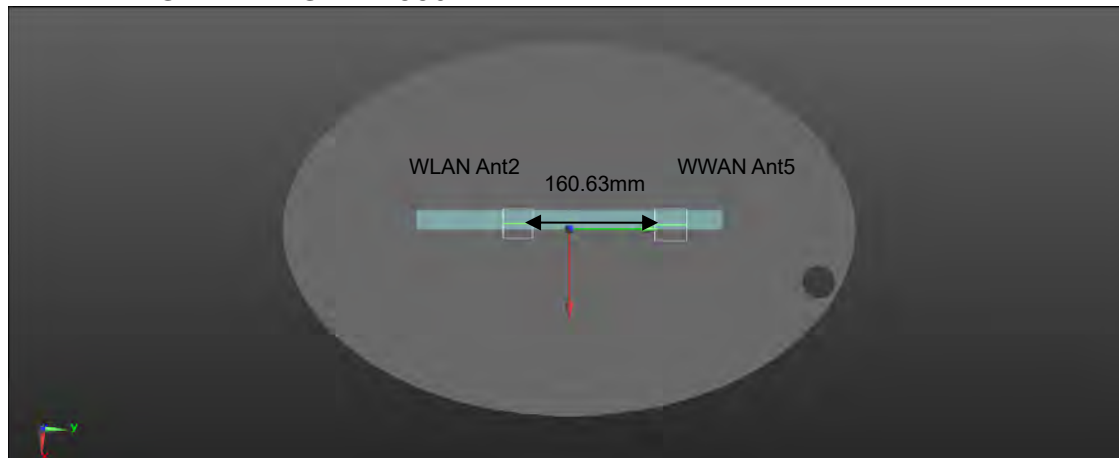
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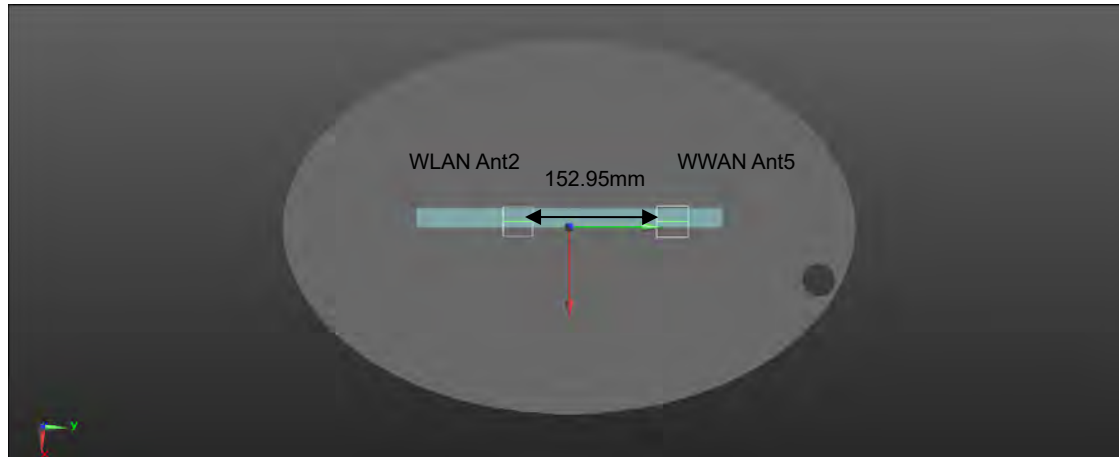
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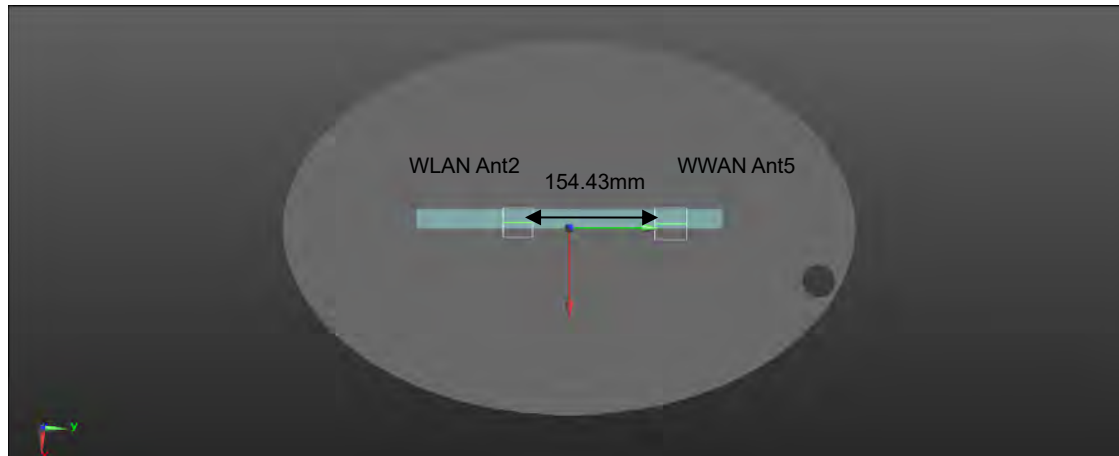
## WLAN 2.4G Ant2 to GPRS 850



## WLAN 2.4G Ant2 to GPRS 1900



## WLAN 2.4G Ant2 to CAT.M1 Band2



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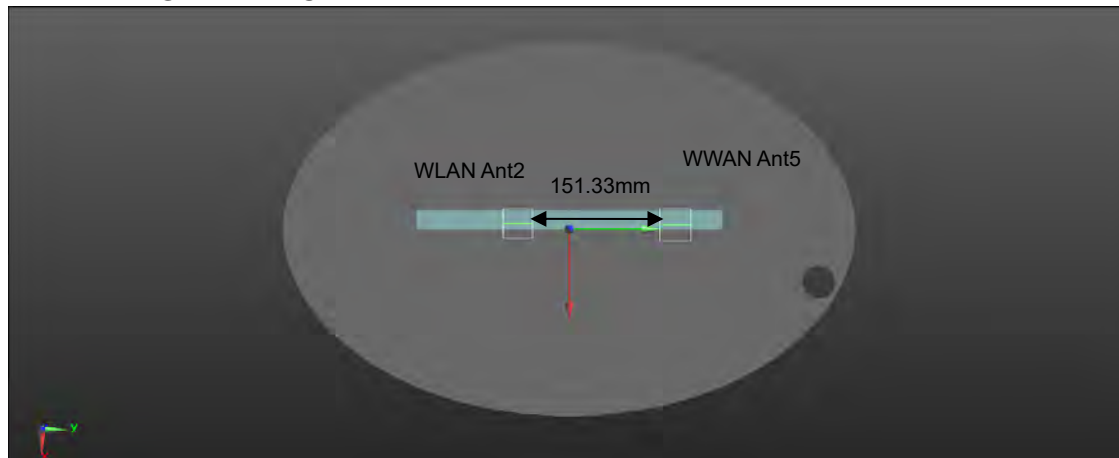
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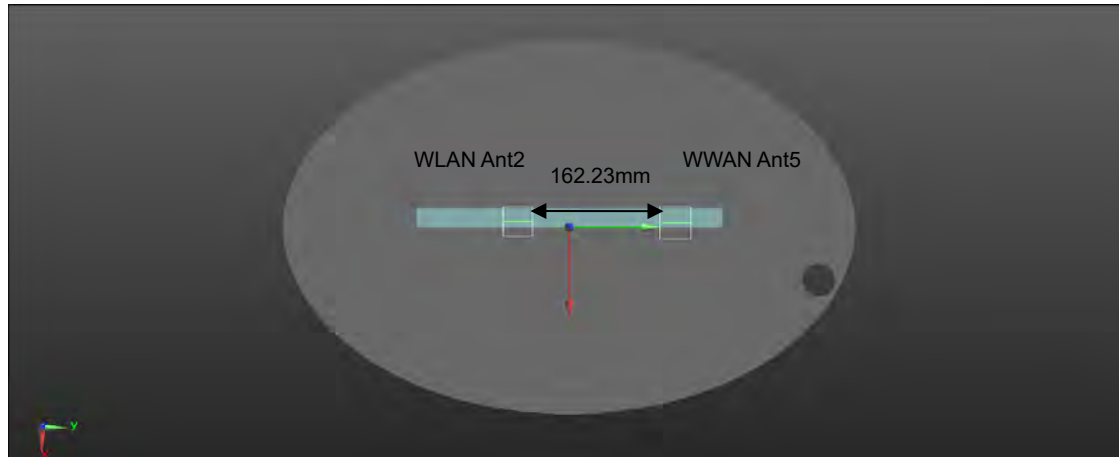
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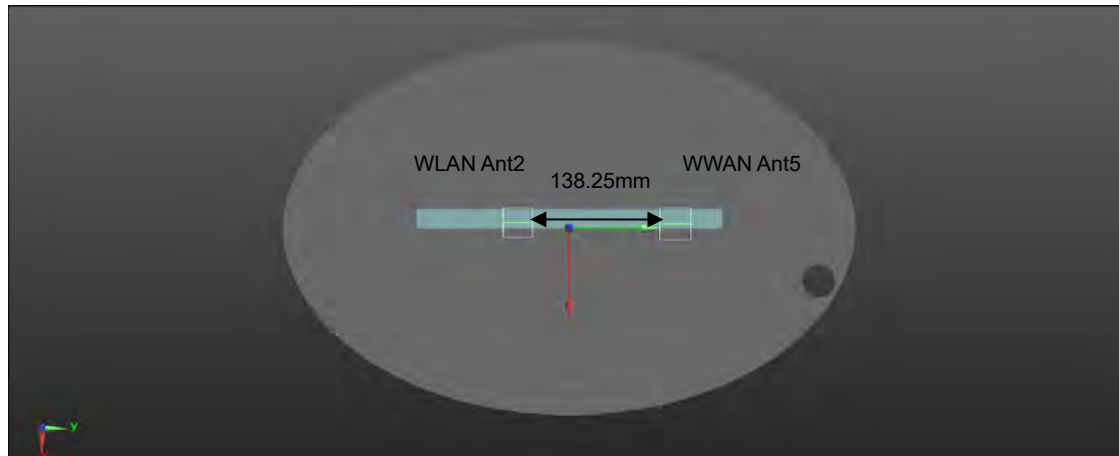
## WLAN 2.4G Ant2 to CAT.M1 Band4



## WLAN 2.4G Ant2 to CAT.M1 Band5



## WLAN 2.4G Ant2 to CAT.M1 Band12



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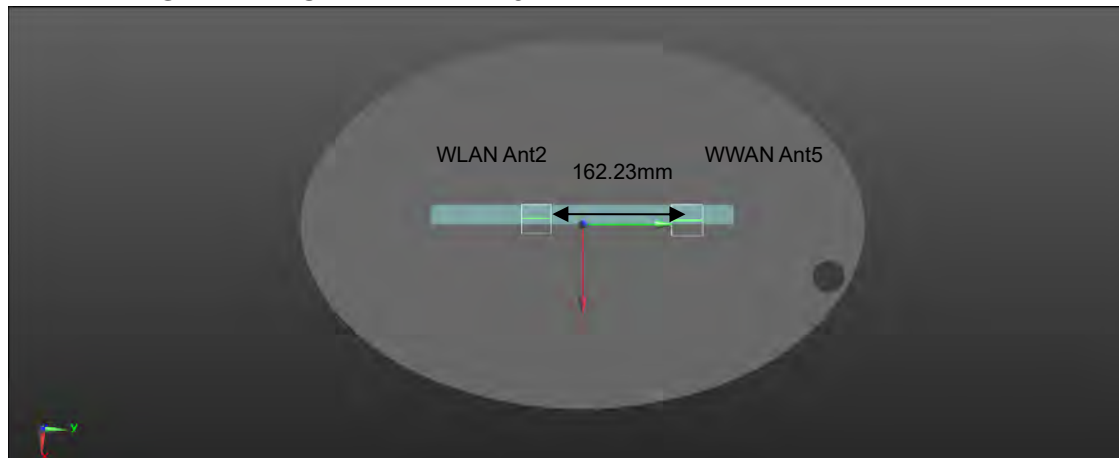
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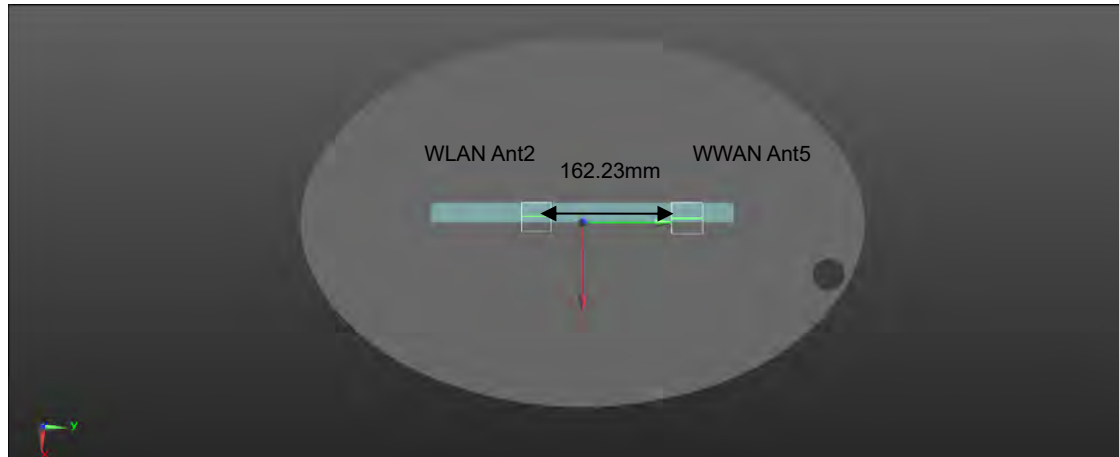
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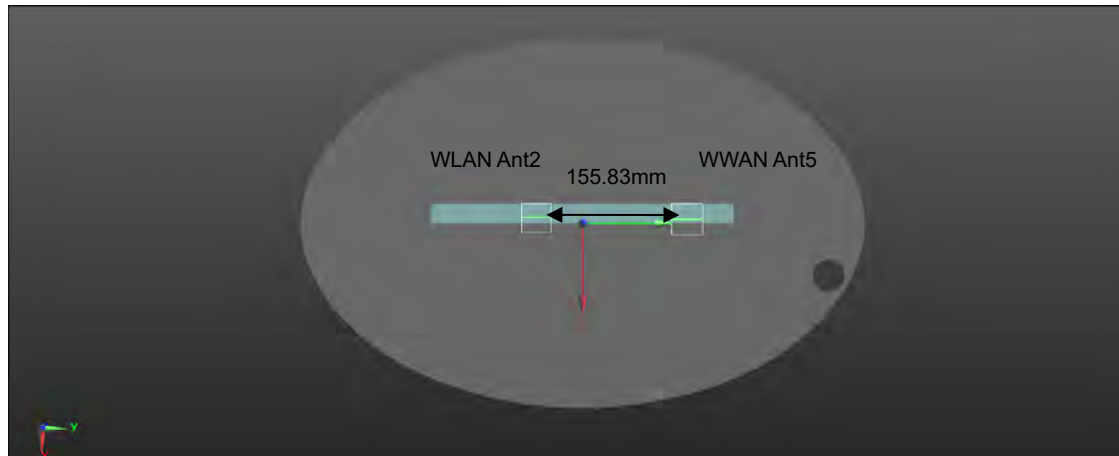
## WLAN 2.4G Ant2 to CAT.M1 Band13



## WLAN 2.4G Ant2 to CAT.M1 Band14



## WLAN 2.4G Ant2 to CAT.M1 Band25



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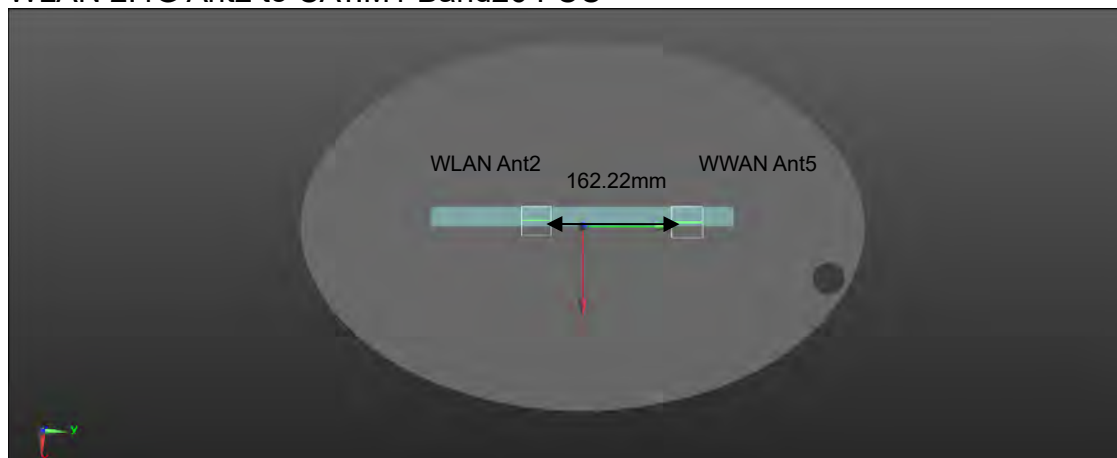
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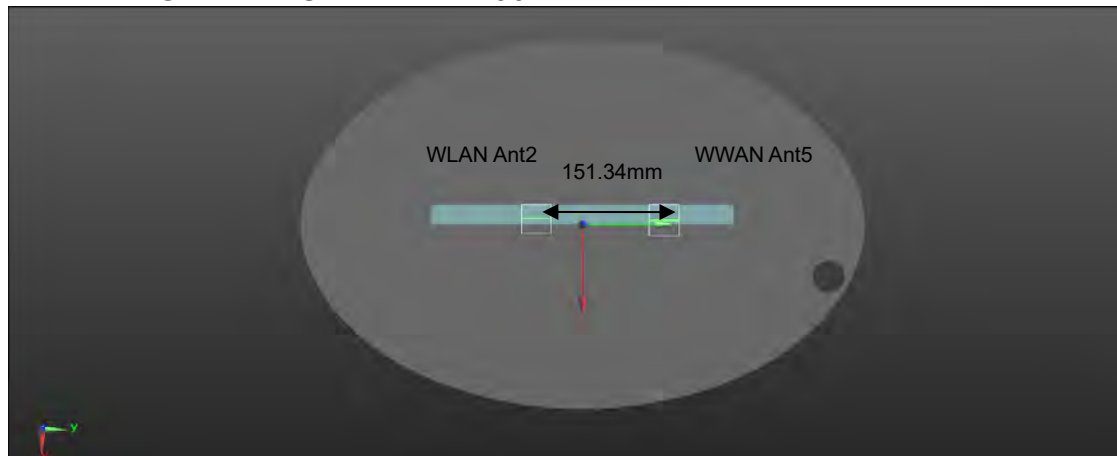
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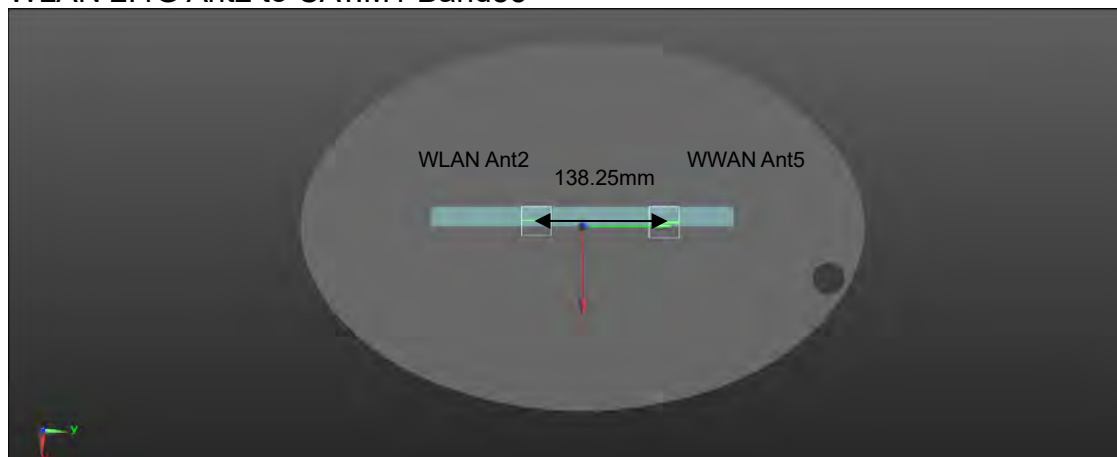
## WLAN 2.4G Ant2 to CAT.M1 Band26 FCC



## WLAN 2.4G Ant2 to CAT.M1 Band66



## WLAN 2.4G Ant2 to CAT.M1 Band85



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| Scenario 1 |                |                  |                  |        |       |                     |  |       |                                    |
|------------|----------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position   | Conditions     | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|            |                |                  | x                | y      | z     |                     |  |       |                                    |
| Top edge   | BT Ant 1       | 0.340            | -0.74            | -14.09 | -0.31 | -                   | -                                      | -     | -                                  |
|            | GPRS 850       | 1.053            | -0.42            | 10.69  | -0.31 | 1.393               | 247.82                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|            | GPRS 1900      | 0.939            | -0.30            | 9.92   | -0.32 | 1.279               | 240.14                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|            | CAT.M1 Band 2  | 0.078            | -0.44            | 10.07  | -0.30 | 0.418               | 241.62                                 | 0.000 | SPLSR $\leq$ 0.04, Not required    |
|            | CAT.M1 Band 4  | 0.078            | -0.45            | 9.76   | -0.31 | 0.418               | 238.52                                 | 0.000 | SPLSR $\leq$ 0.04, Not required    |
|            | CAT.M1 Band 25 | 0.089            | -0.44            | 10.21  | -0.31 | 0.429               | 243.02                                 | 0.000 | SPLSR $\leq$ 0.04, Not required    |
|            | CAT.M1 Band 66 | 0.104            | -0.45            | 9.76   | -0.31 | 0.444               | 238.52                                 | 0.000 | SPLSR $\leq$ 0.04, Not required    |
|            | CAT.M1 Band 85 | 0.214            | -0.45            | 8.45   | -0.31 | 0.554               | 225.42                                 | 0.000 | SPLSR $\leq$ 0.04, Not required    |

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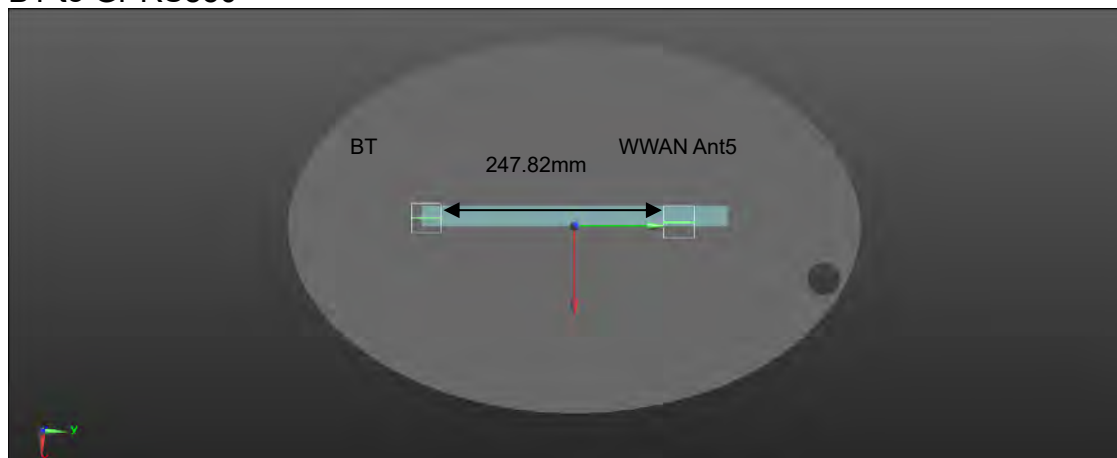
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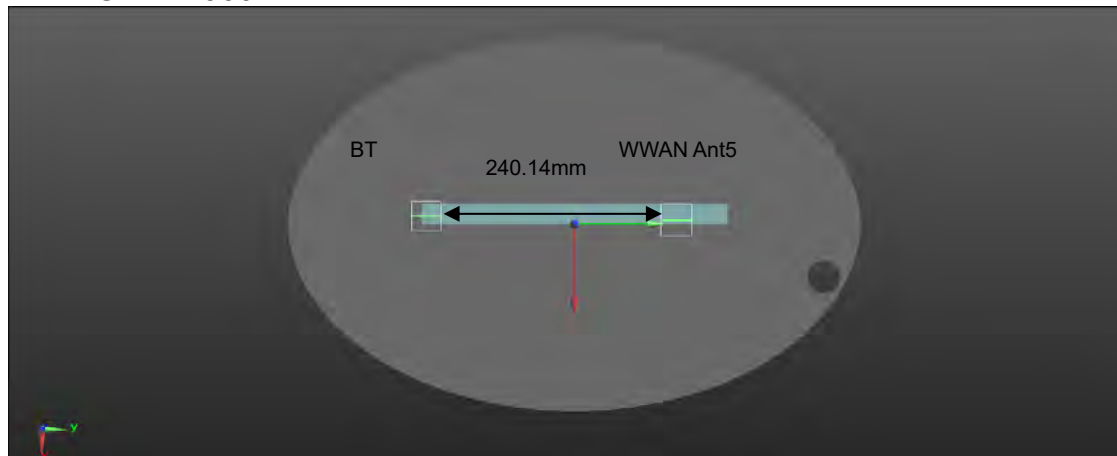
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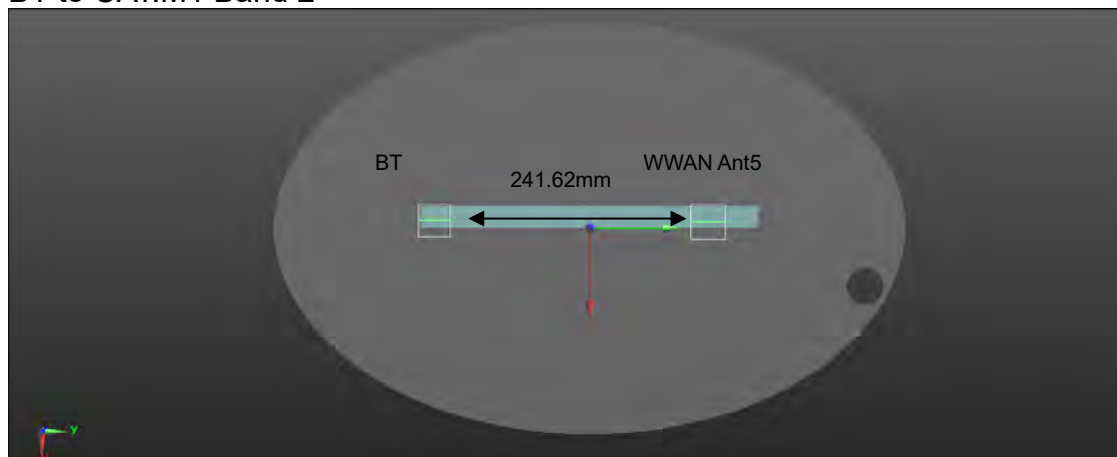
BT to GPRS850



BT to GPRS1900



BT to CAT.M1 Band 2



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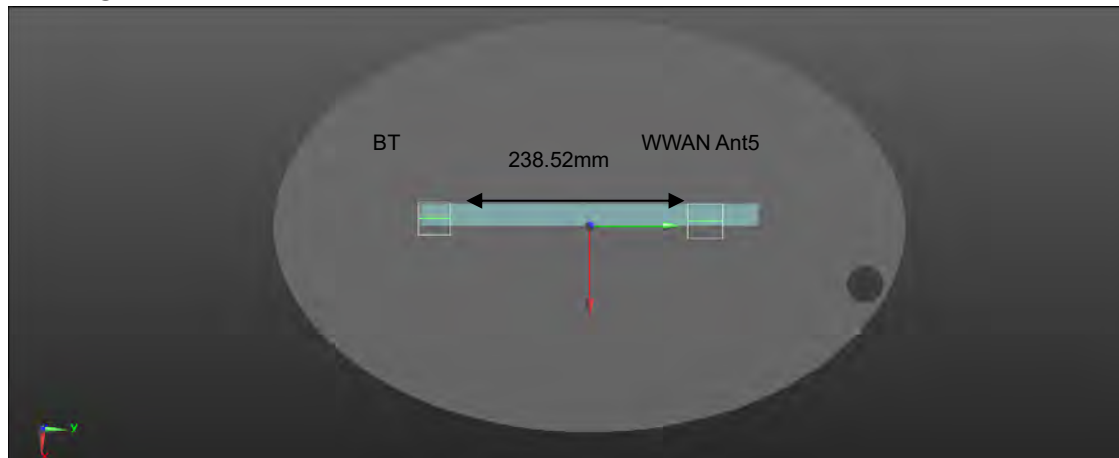
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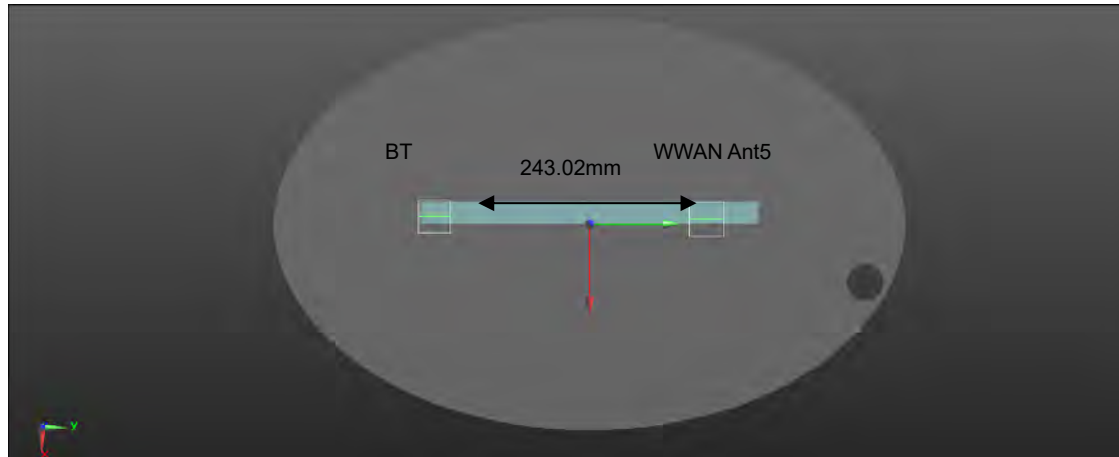
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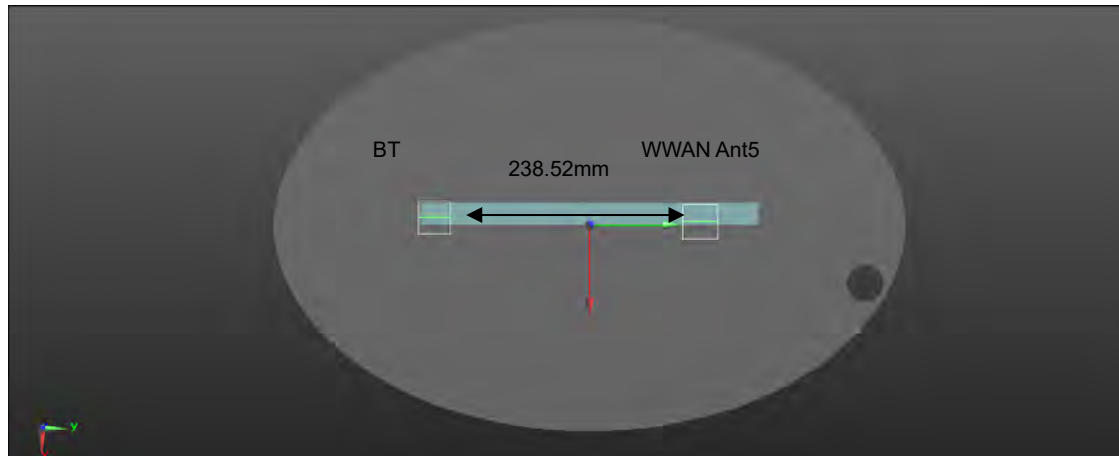
BT to CAT.M1 Band 4



BT to CAT.M1 Band 25



BT to CAT.M1 Band 66



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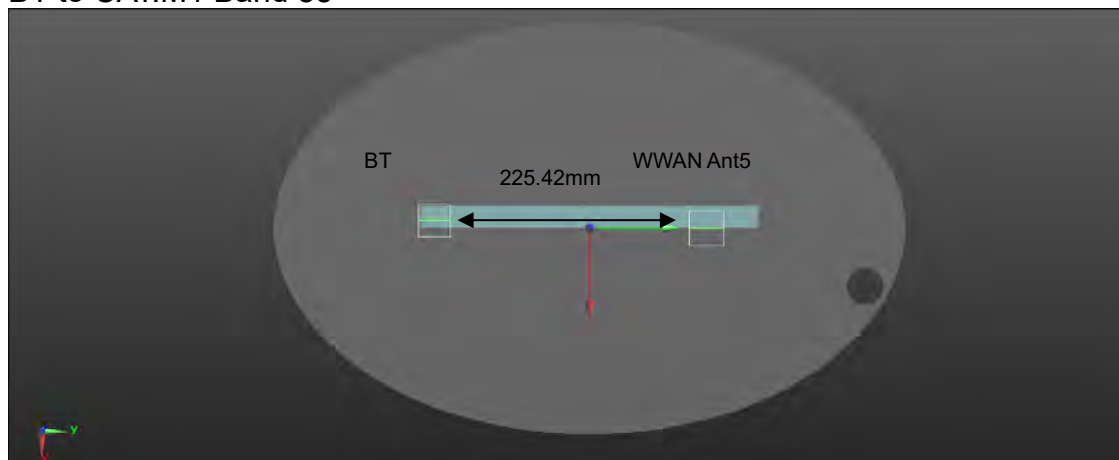
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## BT to CAT.M1 Band 85



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| Scenario 2: |                    |                  |                  |        |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y      | z     |                     |  |       |                                    |
| Top edge    | WLAN 5G Ant1+ BT   | 1.530            | -0.74            | -14.09 | -0.31 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.053            | -0.45            | 10.69  | -0.31 | 2.583               | 247.82                                 | 0.017 | SPLSR $\leq$ 0.04,<br>Not required |
|             | GPRS 1900          | 0.939            | -0.30            | 9.92   | -0.32 | 2.469               | 240.14                                 | 0.016 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 2      | 0.078            | -0.44            | 10.07  | -0.30 | 1.608               | 241.62                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 4      | 0.078            | -0.45            | 9.76   | -0.31 | 1.608               | 238.52                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 5      | 0.057            | -0.61            | 10.85  | -0.31 | 1.587               | 249.40                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 12     | 0.045            | -0.45            | 8.45   | -0.31 | 1.575               | 225.42                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 13     | 0.060            | -0.45            | 10.85  | -0.31 | 1.590               | 249.42                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 14     | 0.053            | -0.45            | 10.85  | -0.31 | 1.583               | 249.42                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 25     | 0.089            | -0.44            | 10.21  | -0.31 | 1.619               | 243.02                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 26_FCC | 0.056            | -0.61            | 10.85  | -0.30 | 1.586               | 249.40                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 66     | 0.104            | -0.45            | 9.76   | -0.31 | 1.634               | 238.52                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 85     | 0.214            | -0.45            | 8.45   | -0.31 | 1.744               | 225.42                                 | 0.010 | SPLSR $\leq$ 0.04,<br>Not required |

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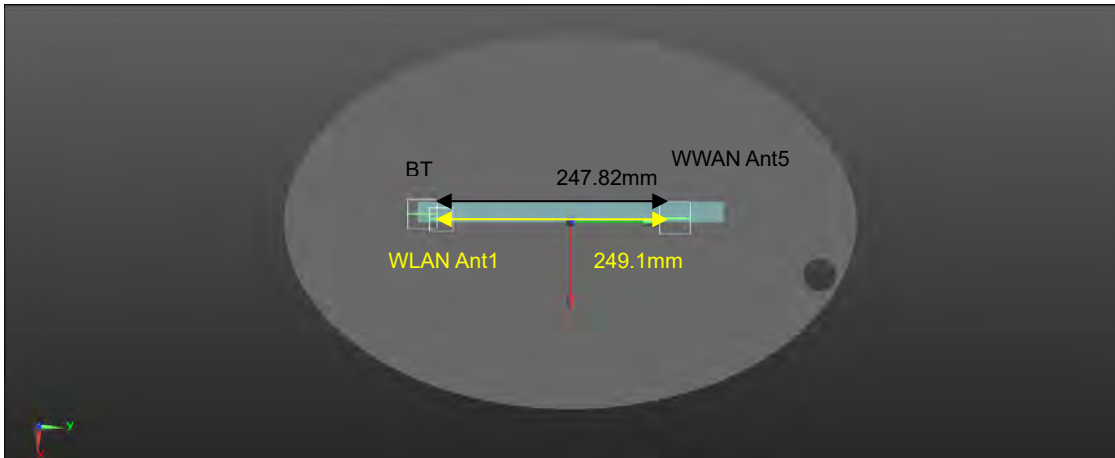
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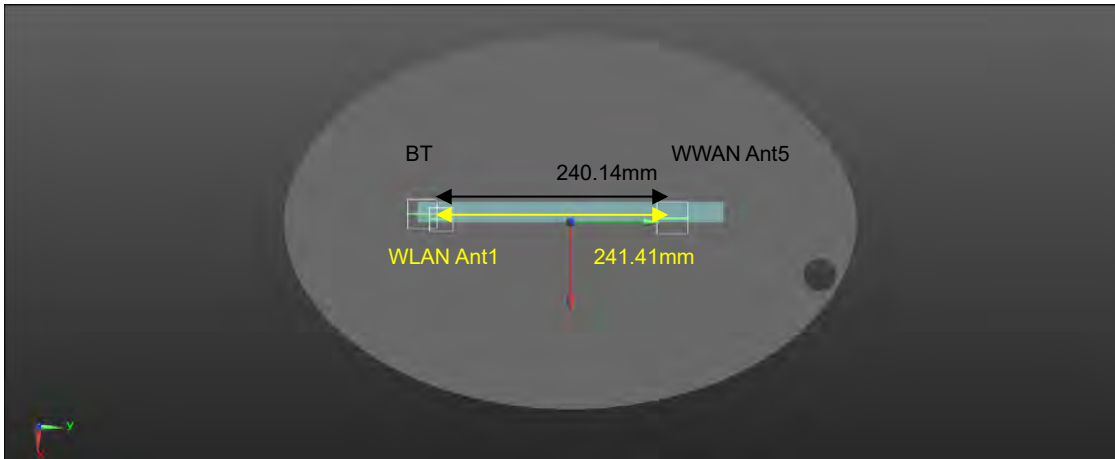
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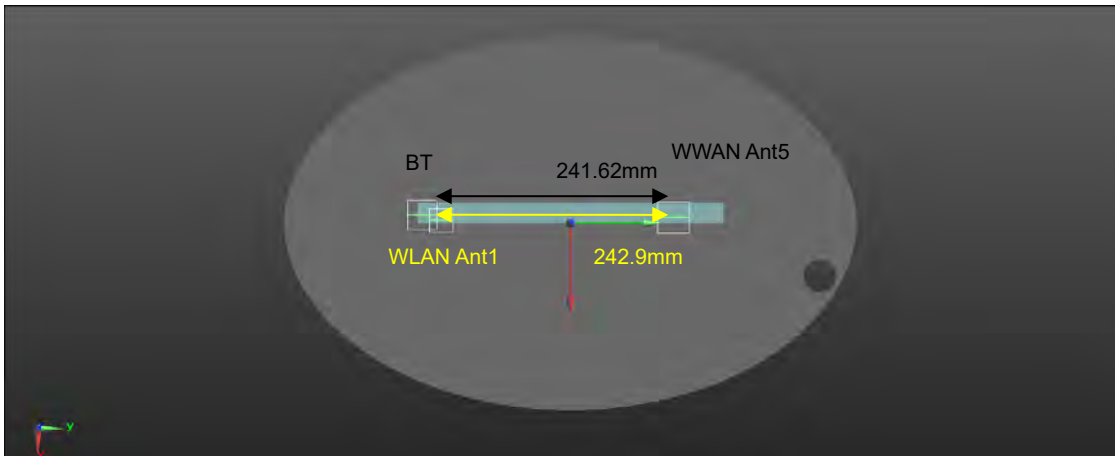
## WLAN 5G Ant1+BT to GPRS850



## WLAN 5G Ant1+BT to GPRS1900



## WLAN 5G Ant1+BT to CAT.M1 Band2



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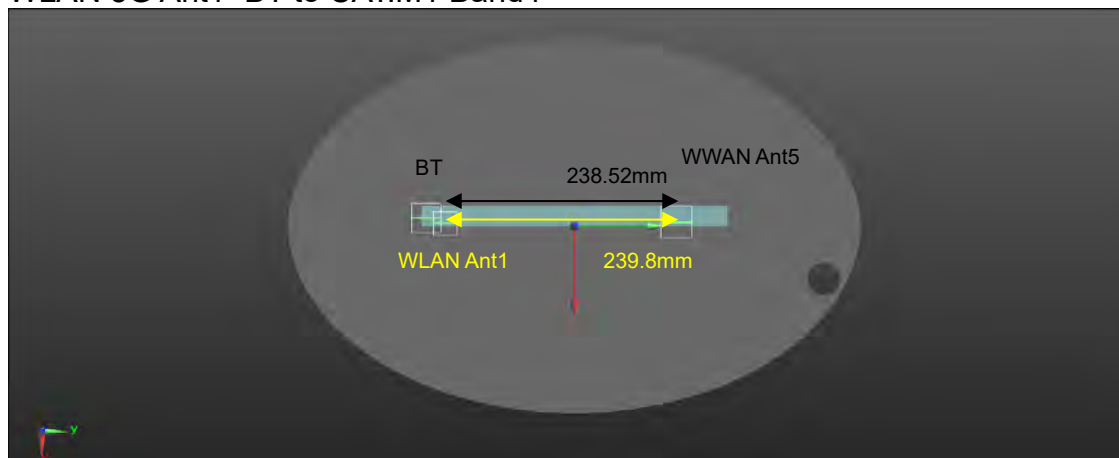
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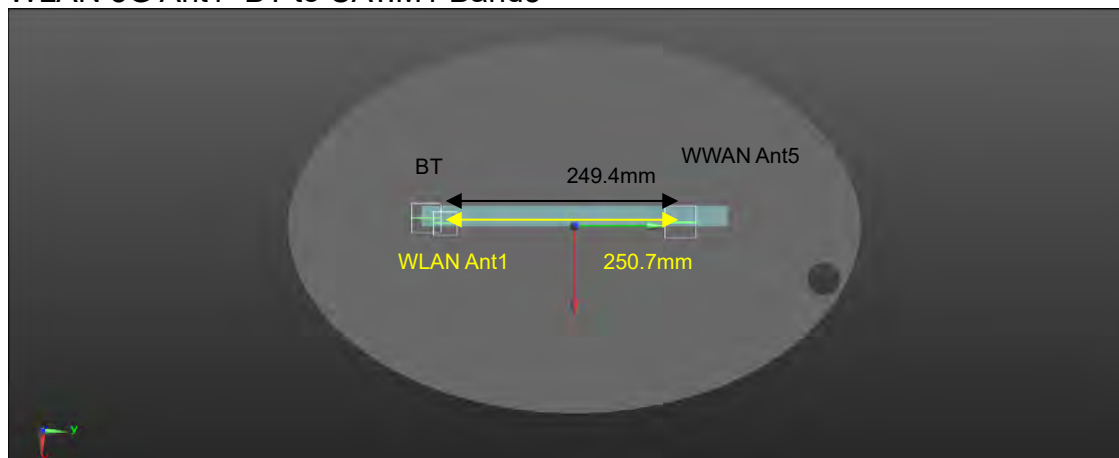
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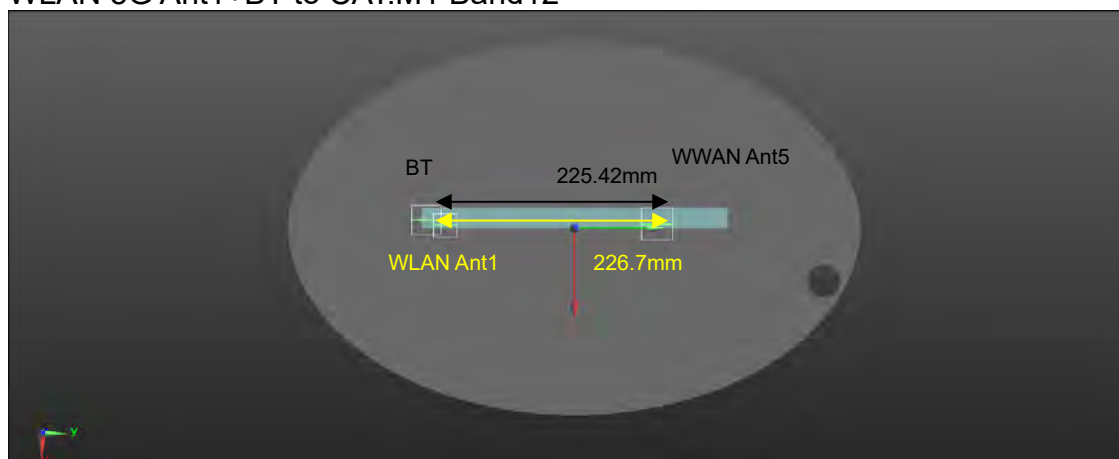
WLAN 5G Ant1+BT to CAT.M1 Band4



WLAN 5G Ant1+BT to CAT.M1 Band5



WLAN 5G Ant1+BT to CAT.M1 Band12



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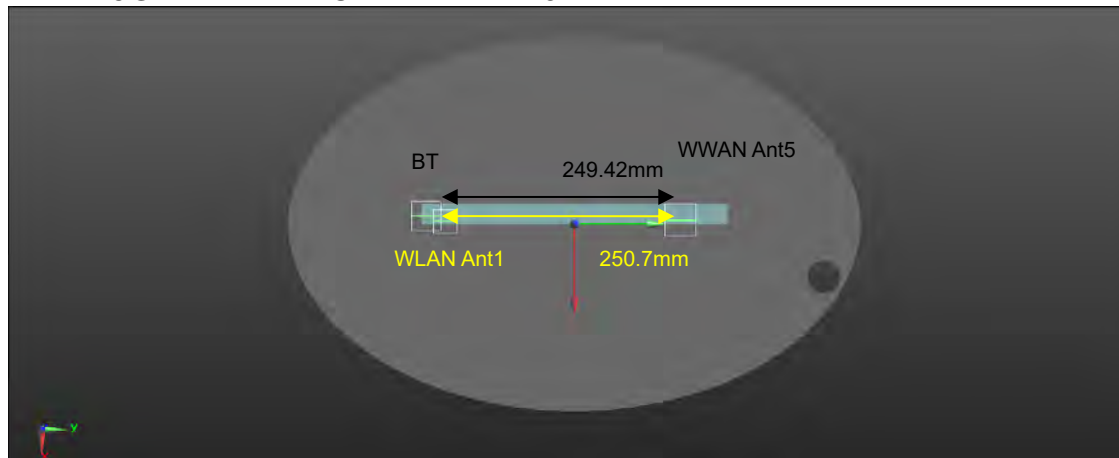
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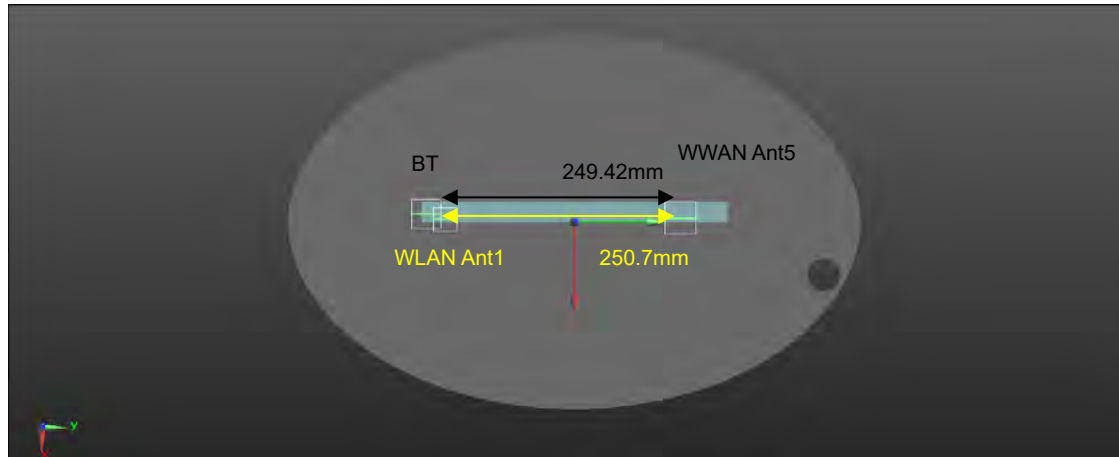
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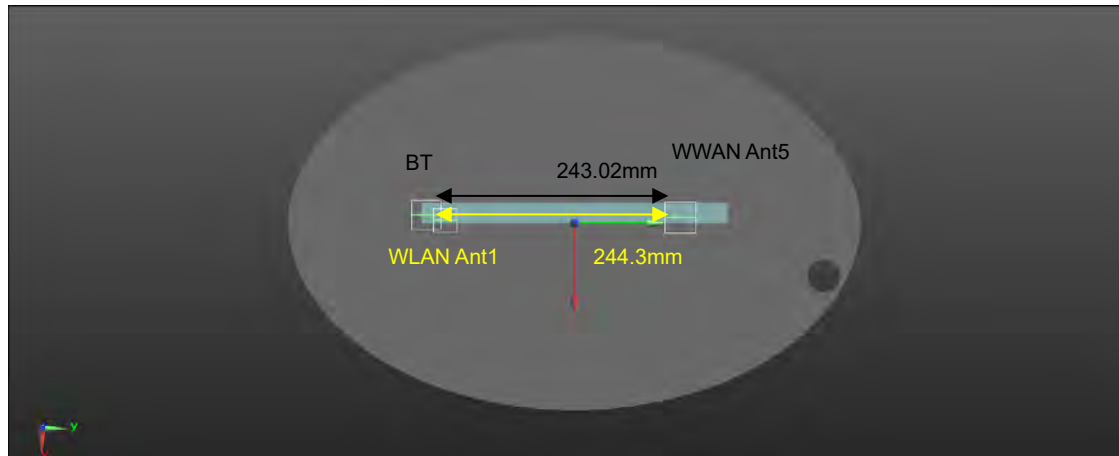
## WLAN 5G Ant1+BT to CAT.M1 Band13



## WLAN 5G Ant1+BT to CAT.M1 Band14



## WLAN 5G Ant1+BT to CAT.M1 Band25



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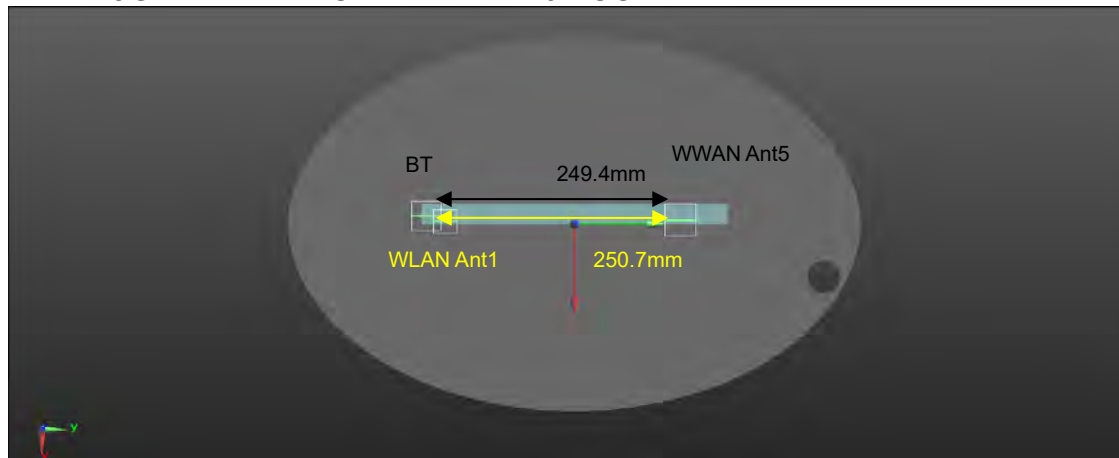
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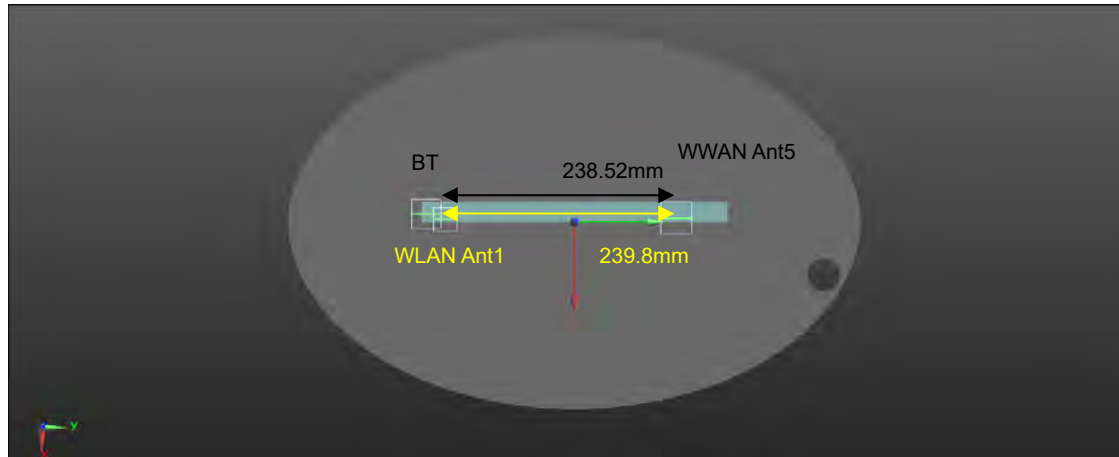
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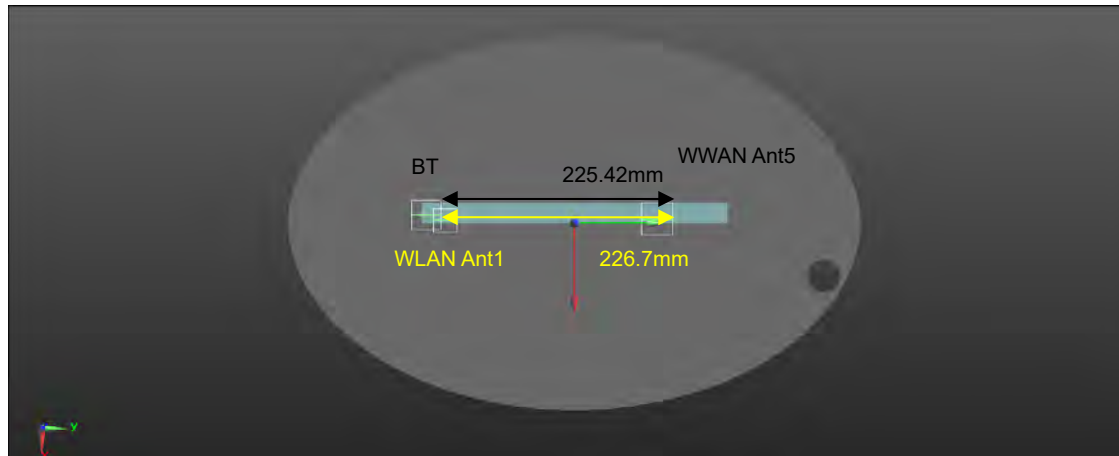
## WLAN 5G Ant1+BT to CAT.M1 Band26 FCC



## WLAN 5G Ant1+BT to CAT.M1 Band66



## WLAN 5G Ant1+BT to CAT.M1 Band85



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| Scenario 2: |                    |                  |                  |       |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|-------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |       |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y     | z     |                     |  |       |                                    |
| Top edge    | WLAN 5G Ant2       | 1.450            | -0.42            | -5.29 | -0.33 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.053            | -0.45            | 10.69 | -0.31 | 2.503               | 159.80                                 | 0.025 | SPLSR $\leq$ 0.04,<br>Not required |
|             | GPRS 1900          | 0.939            | -0.30            | 9.92  | -0.32 | 2.389               | 152.10                                 | 0.024 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 2      | 0.078            | -0.44            | 10.07 | -0.30 | 1.528               | 153.60                                 | 0.012 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 4      | 0.078            | -0.45            | 9.76  | -0.31 | 1.528               | 150.50                                 | 0.013 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 5      | 0.057            | -0.61            | 10.85 | -0.31 | 1.507               | 161.41                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 12     | 0.045            | -0.45            | 8.45  | -0.31 | 1.495               | 137.40                                 | 0.013 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 13     | 0.060            | -0.45            | 10.85 | -0.31 | 1.510               | 161.40                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 14     | 0.053            | -0.45            | 10.85 | -0.31 | 1.503               | 161.40                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 25     | 0.089            | -0.44            | 10.21 | -0.31 | 1.539               | 155.00                                 | 0.012 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 26_FCC | 0.056            | -0.61            | 10.85 | -0.30 | 1.506               | 161.41                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 66     | 0.104            | -0.45            | 9.76  | -0.31 | 1.554               | 150.50                                 | 0.013 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 85     | 0.214            | -0.45            | 8.45  | -0.31 | 1.664               | 137.40                                 | 0.016 | SPLSR $\leq$ 0.04,<br>Not required |

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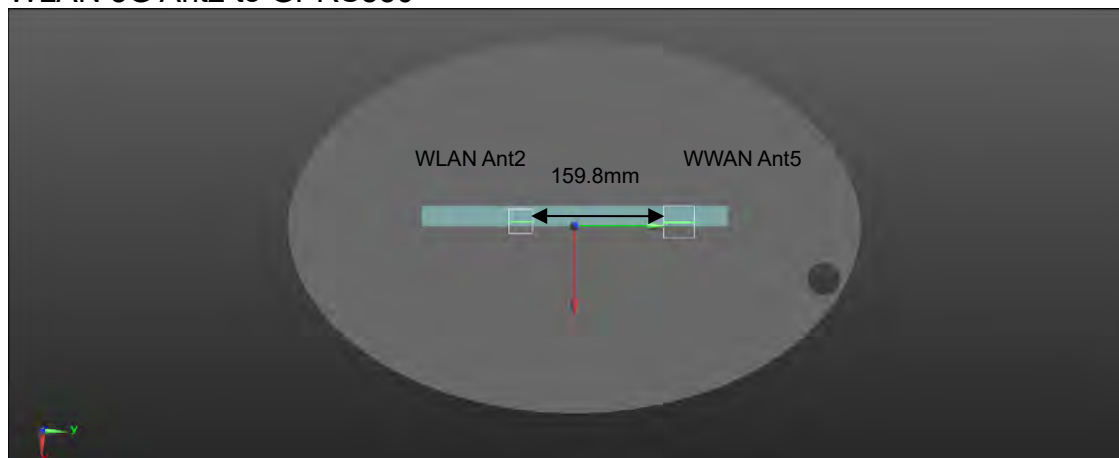
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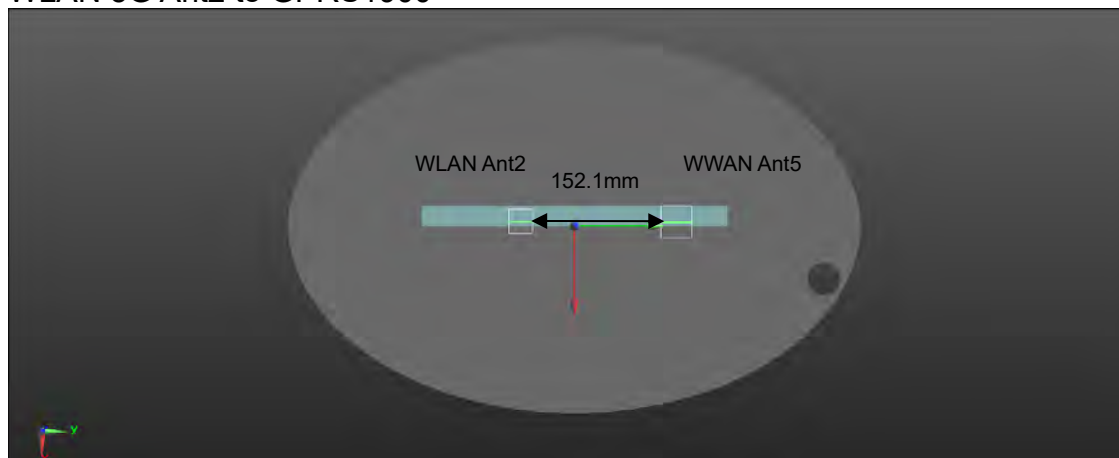
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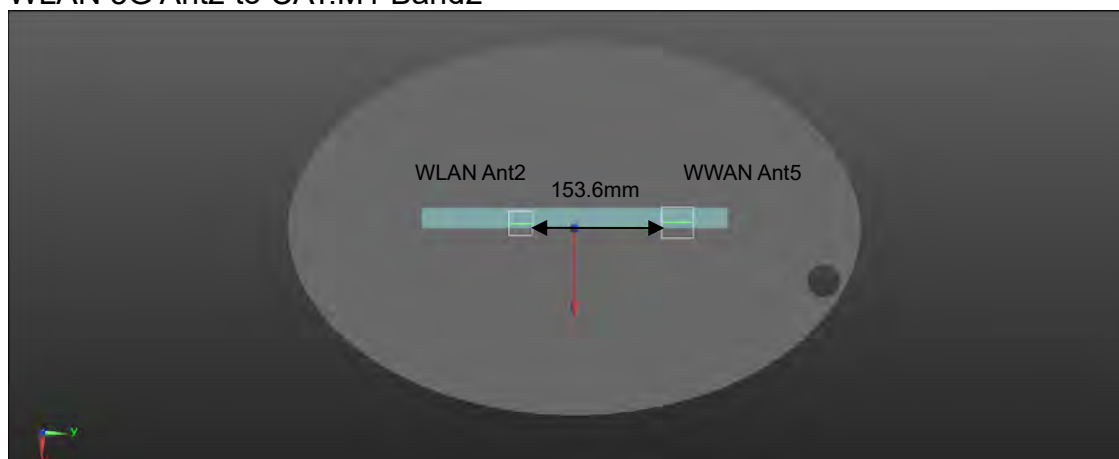
WLAN 5G Ant2 to GPRS850



WLAN 5G Ant2 to GPRS1900



WLAN 5G Ant2 to CAT.M1 Band2



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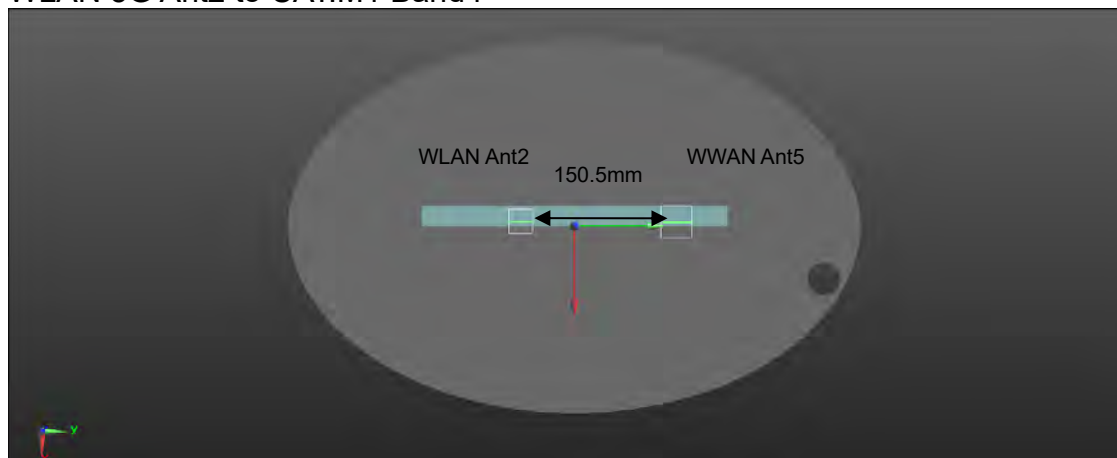
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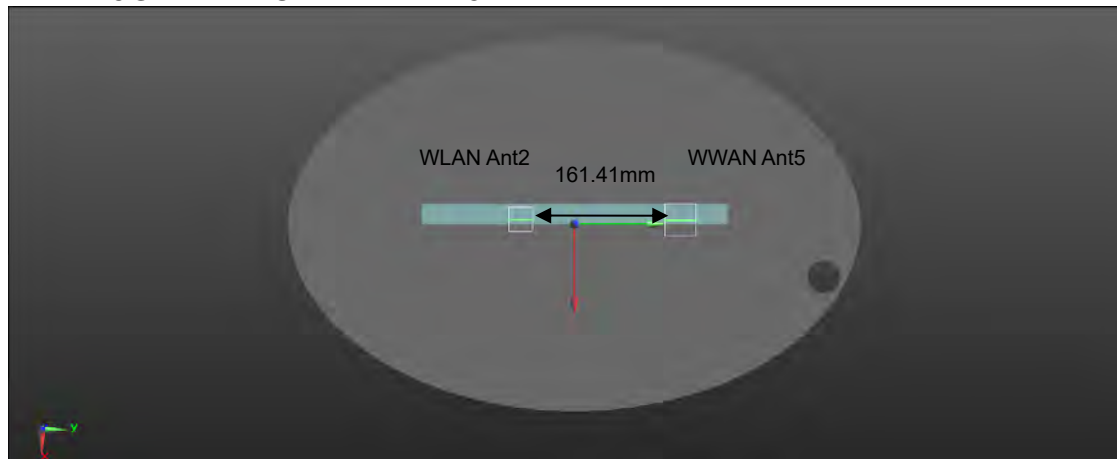
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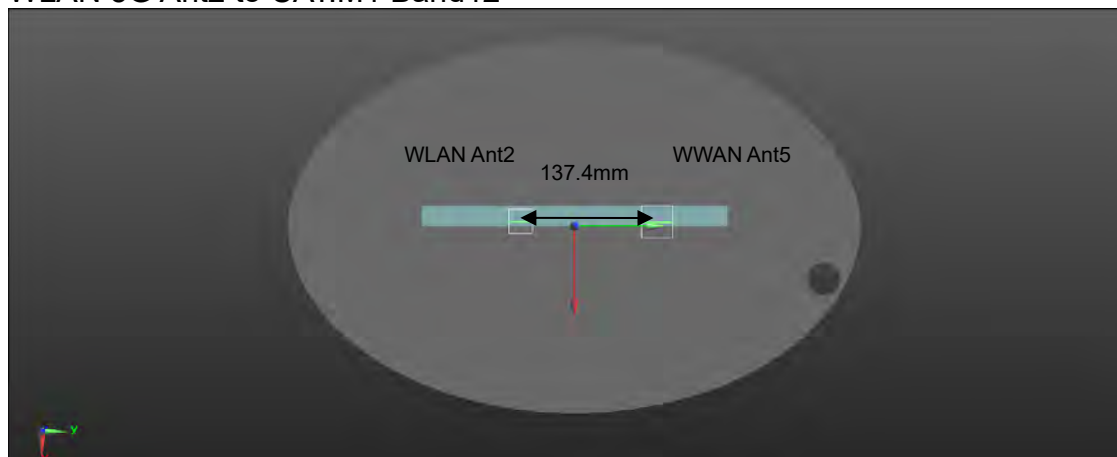
WLAN 5G Ant2 to CAT.M1 Band4



WLAN 5G Ant2 to CAT.M1 Band5



WLAN 5G Ant2 to CAT.M1 Band12



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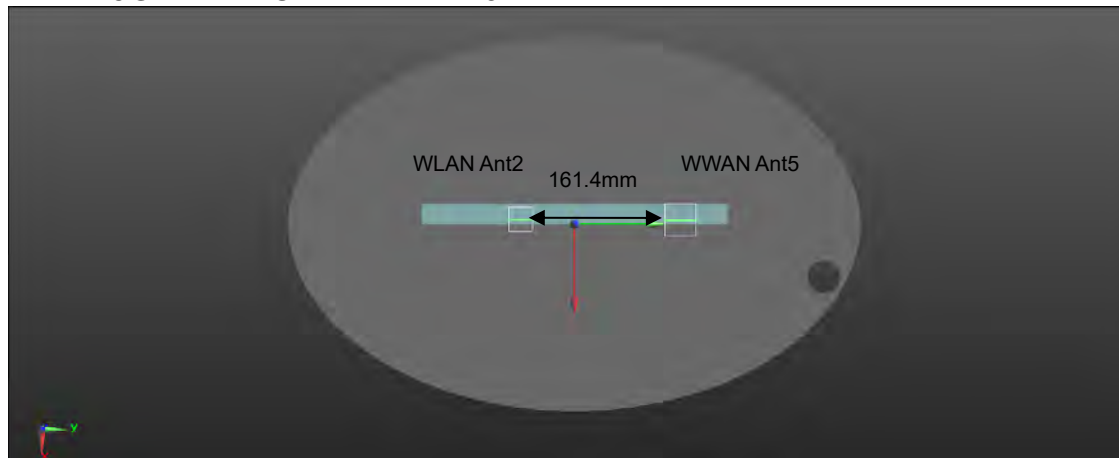
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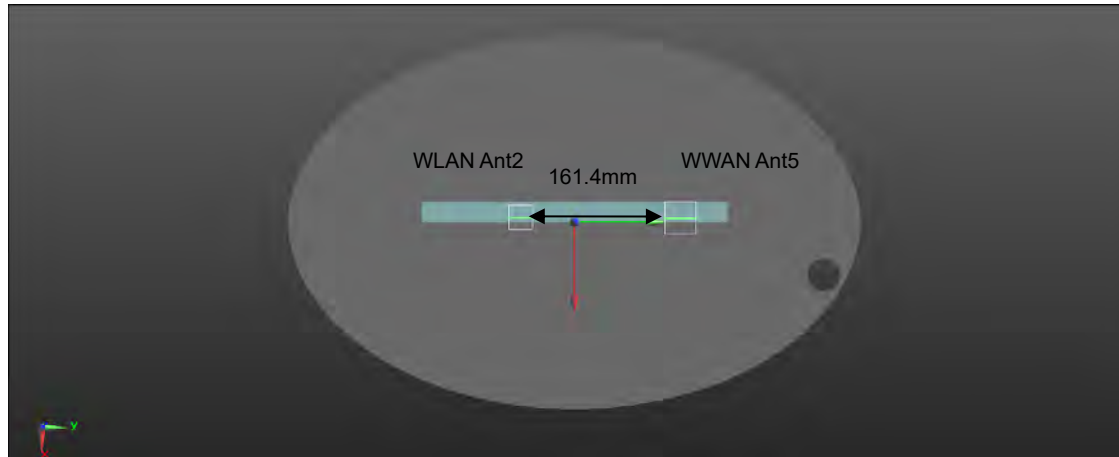
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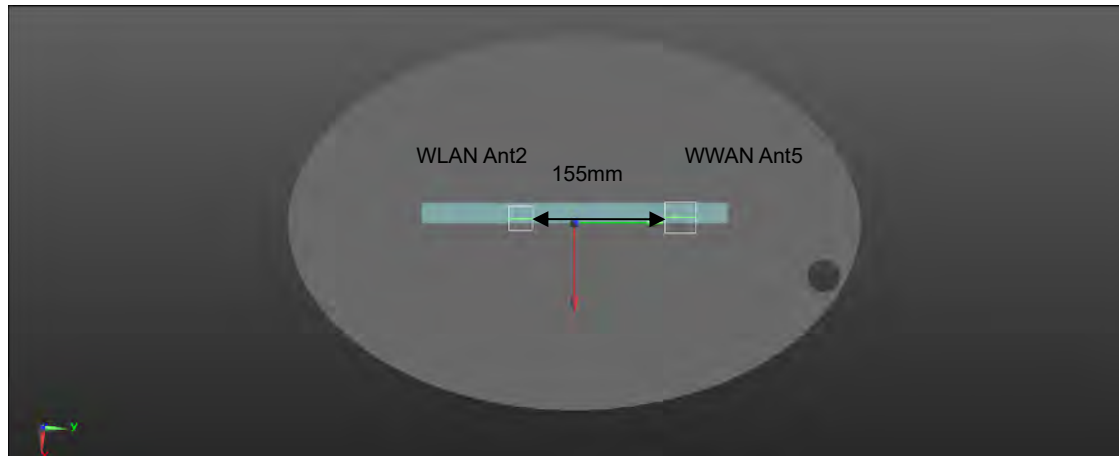
WLAN 5G Ant2 to CAT.M1 Band13



WLAN 5G Ant2 to CAT.M1 Band14



WLAN 5G Ant2 to CAT.M1 Band25



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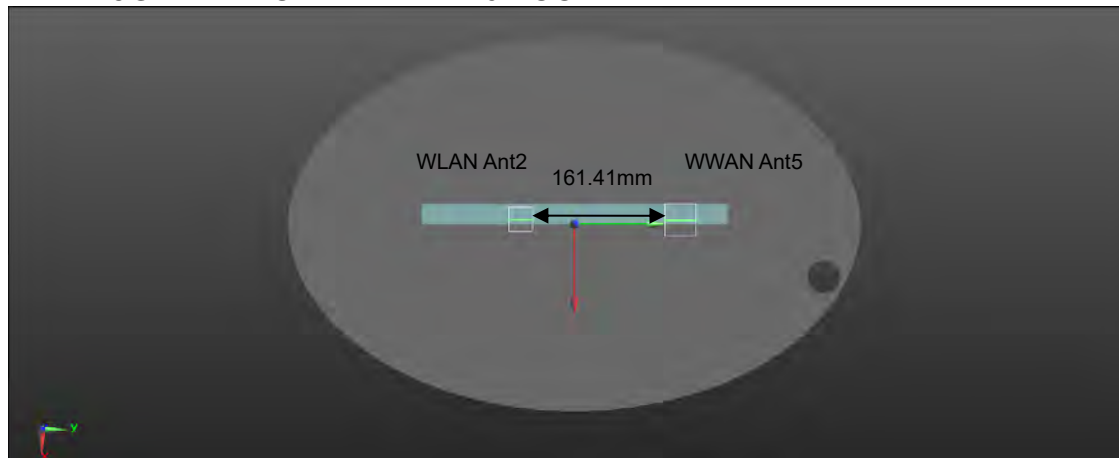
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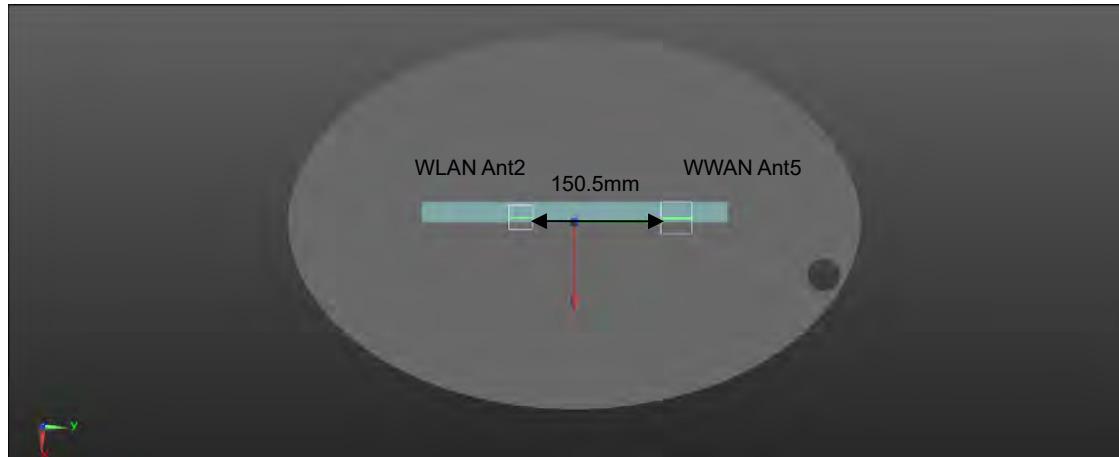
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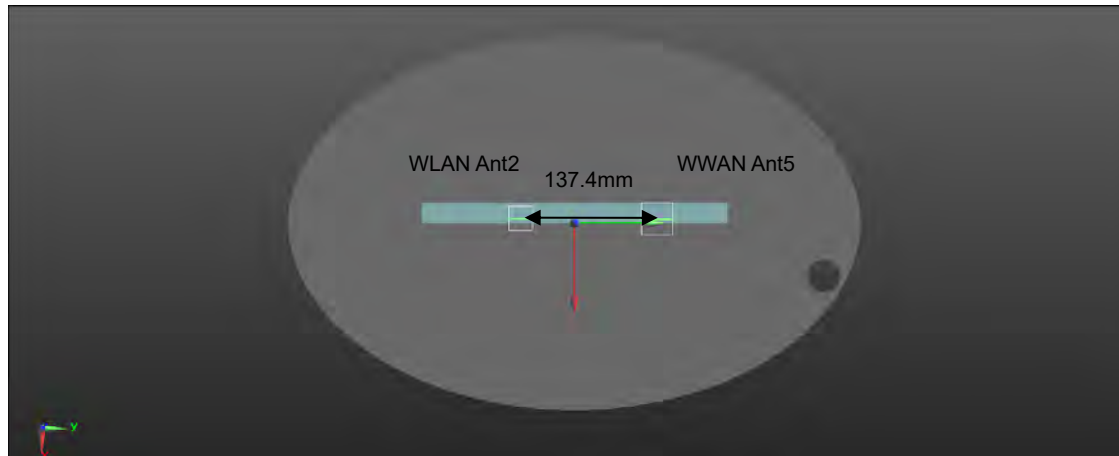
## WLAN 5G Ant2 to CAT.M1 Band26 FCC



## WLAN 5G Ant2 to CAT.M1 Band66



## WLAN 5G Ant2 to CAT.M1 Band85



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| Scenario 3: |                    |                  |                  |        |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y      | z     |                     |  |       |                                    |
| Top edge    | WLAN 6G Ant1+BT    | 1.400            | -0.69            | -13.85 | -0.31 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.053            | -0.45            | 10.69  | -0.31 | 2.453               | 245.41                                 | 0.016 | SPLSR $\leq$ 0.04, Not required    |
|             | GPRS 1900          | 0.939            | -0.30            | 9.92   | -0.32 | 2.339               | 237.73                                 | 0.015 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 2      | 0.078            | -0.44            | 10.07  | -0.30 | 1.478               | 239.21                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 4      | 0.078            | -0.45            | 9.76   | -0.31 | 1.478               | 236.11                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 5      | 0.057            | -0.61            | 10.85  | -0.31 | 1.457               | 247.00                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 12     | 0.045            | -0.45            | 8.45   | -0.31 | 1.445               | 223.01                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 13     | 0.060            | -0.45            | 10.85  | -0.31 | 1.460               | 247.01                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 14     | 0.053            | -0.45            | 10.85  | -0.31 | 1.453               | 247.01                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 25     | 0.089            | -0.44            | 10.21  | -0.31 | 1.489               | 240.61                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 26_FCC | 0.056            | -0.61            | 10.85  | -0.30 | 1.456               | 247.00                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 66     | 0.104            | -0.45            | 9.76   | -0.31 | 1.504               | 236.11                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 85     | 0.214            | -0.45            | 8.45   | -0.31 | 1.614               | 223.01                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |

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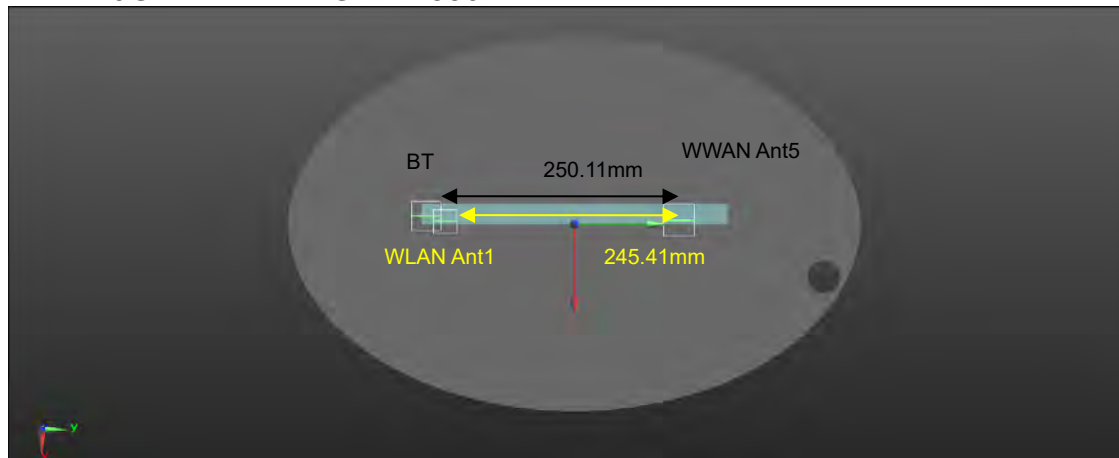
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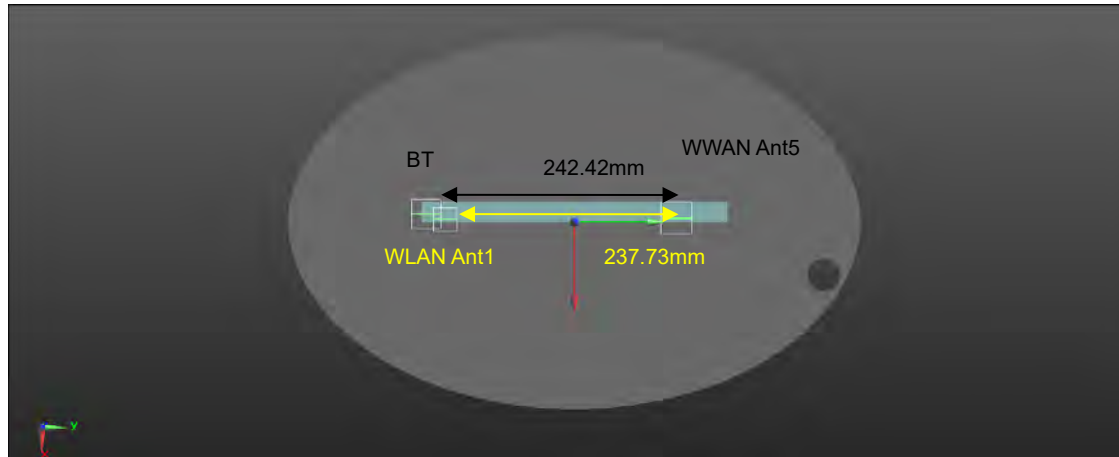
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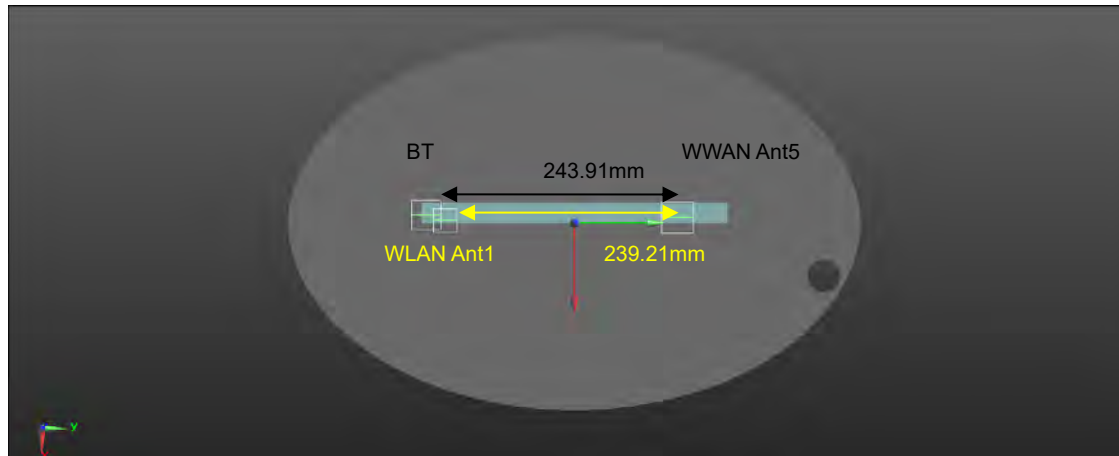
## WLAN 6G Ant1+BT to GPRS 850



## WLAN 6G Ant1+BT to GPRS 1900



## WLAN 6G Ant1+BT to CAT.M1 Band2



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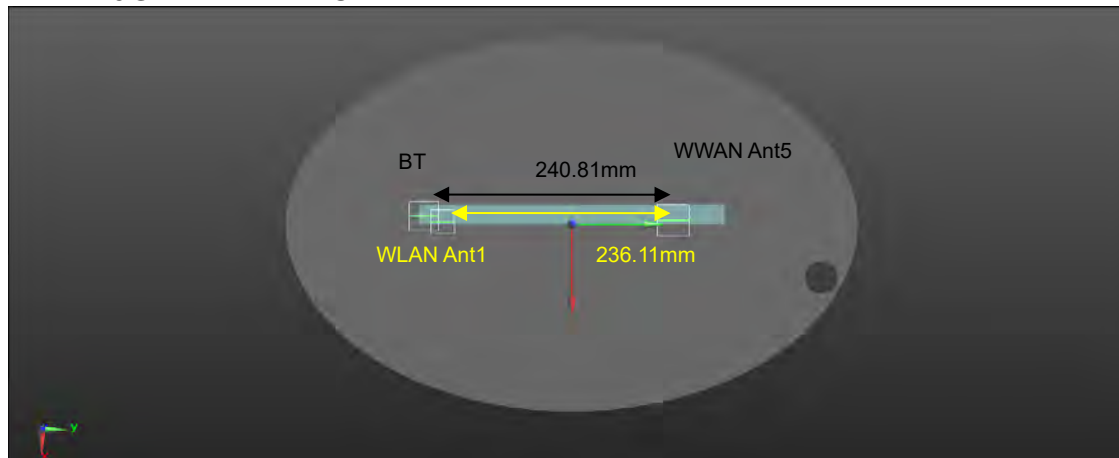
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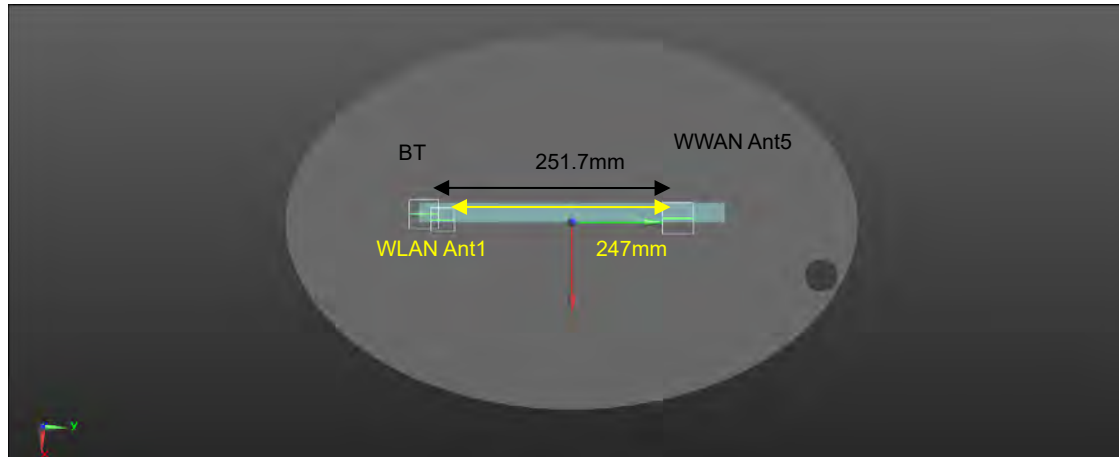
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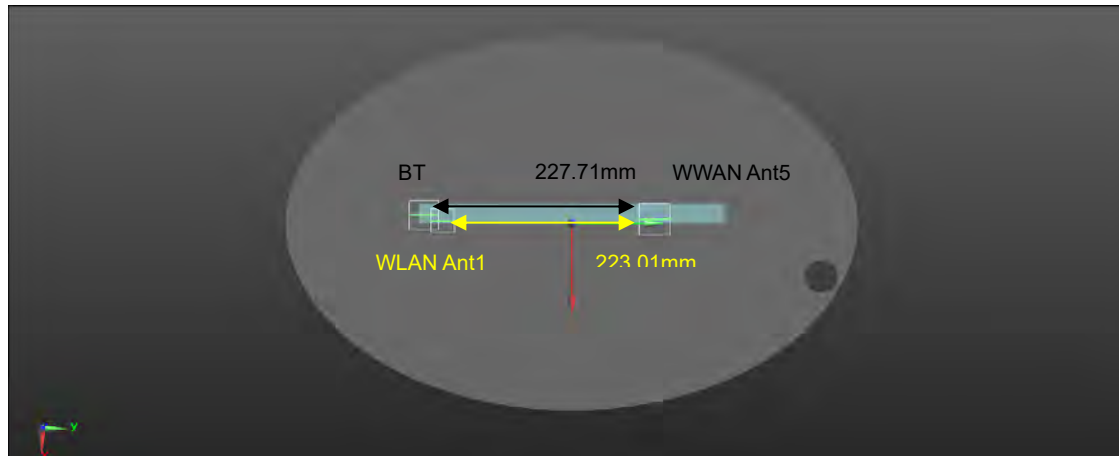
## WLAN 6G Ant1+BT to CAT.M1 Band4



## WLAN 6G Ant1+BT to CAT.M1 Band5



## WLAN 6G Ant1+BT to CAT.M1 Band12



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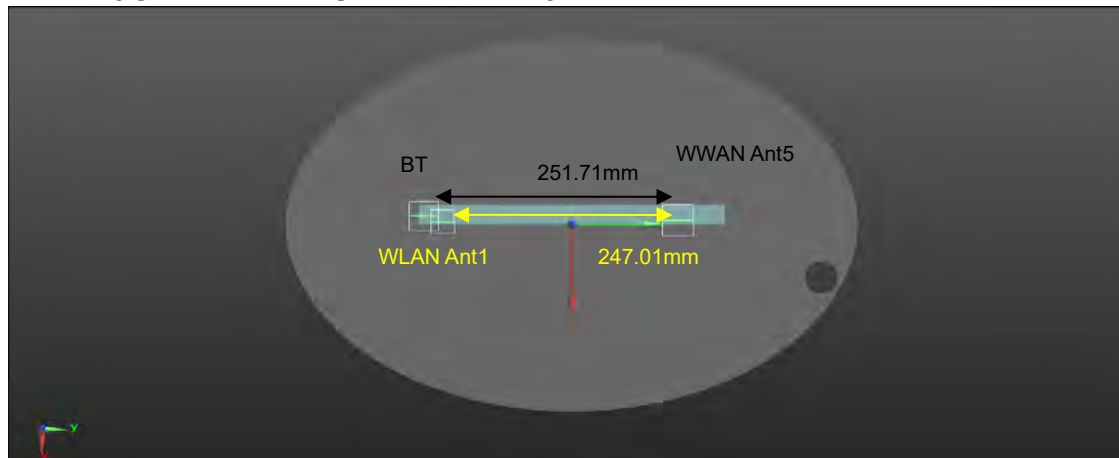
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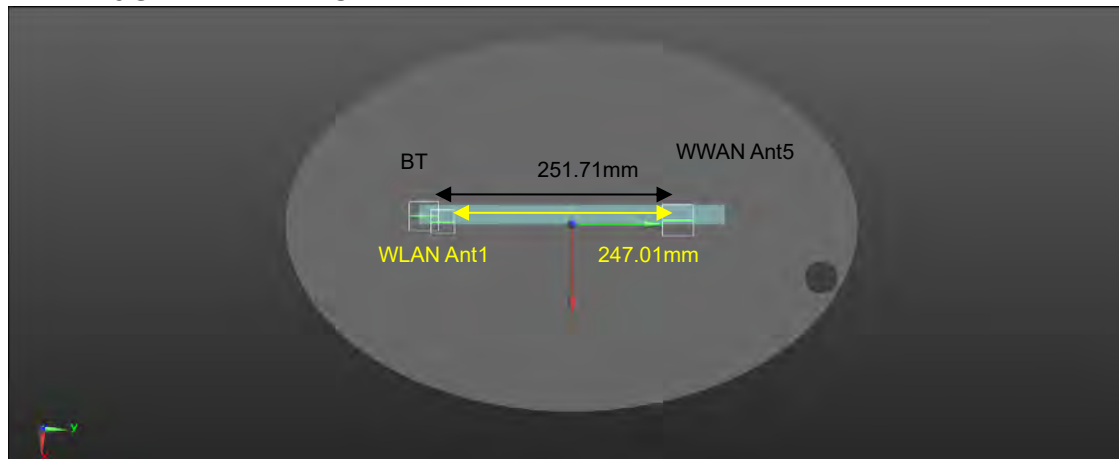
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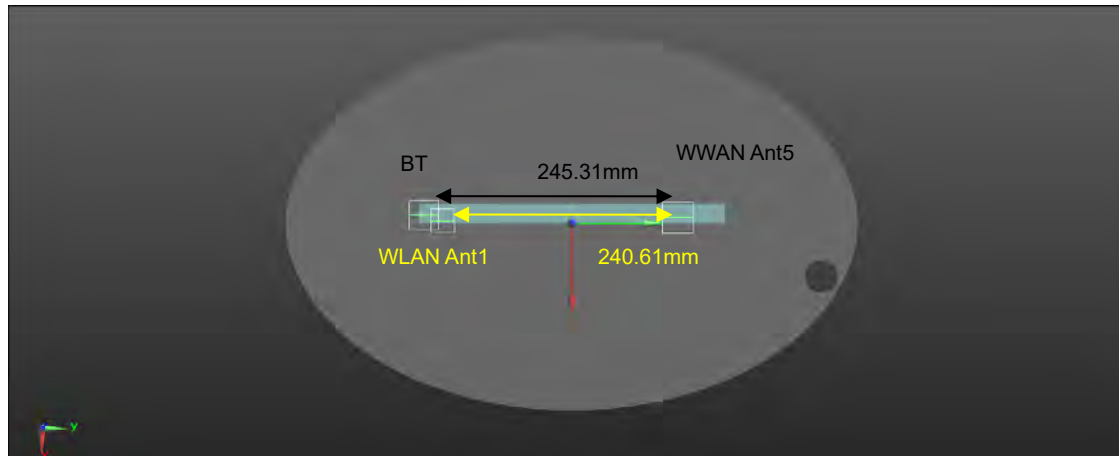
## WLAN 6G Ant1+BT to CAT.M1 Band13



## WLAN 6G Ant1+BT to CAT.M1 Band14



## WLAN 6G Ant1+BT to CAT.M1 Band25



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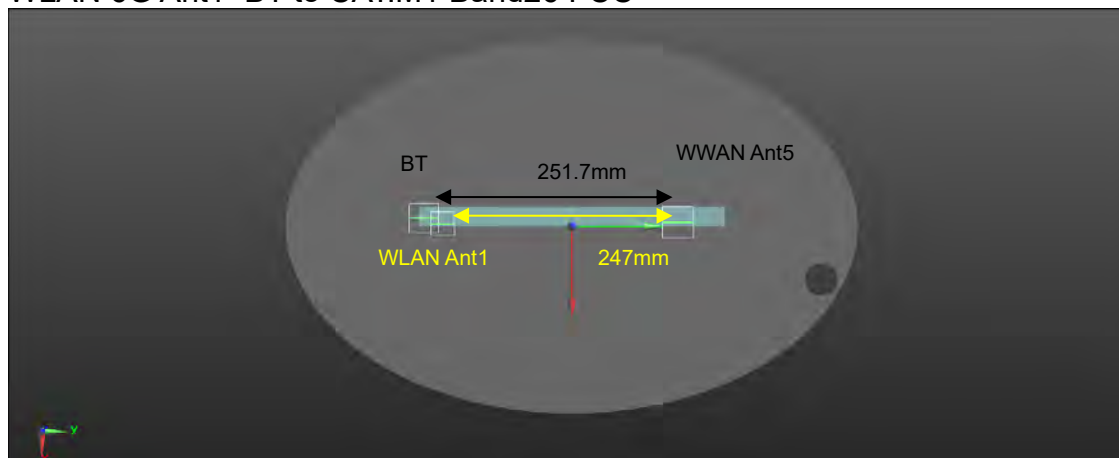
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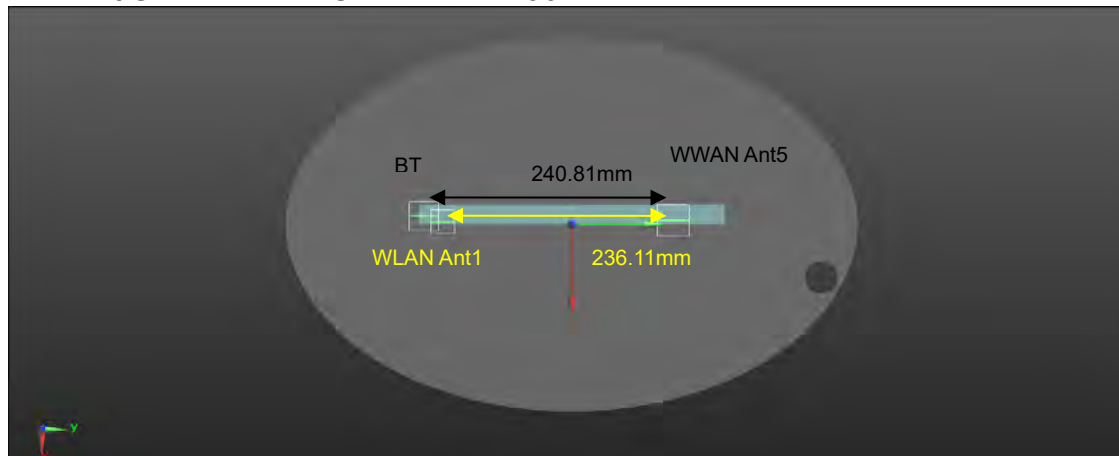
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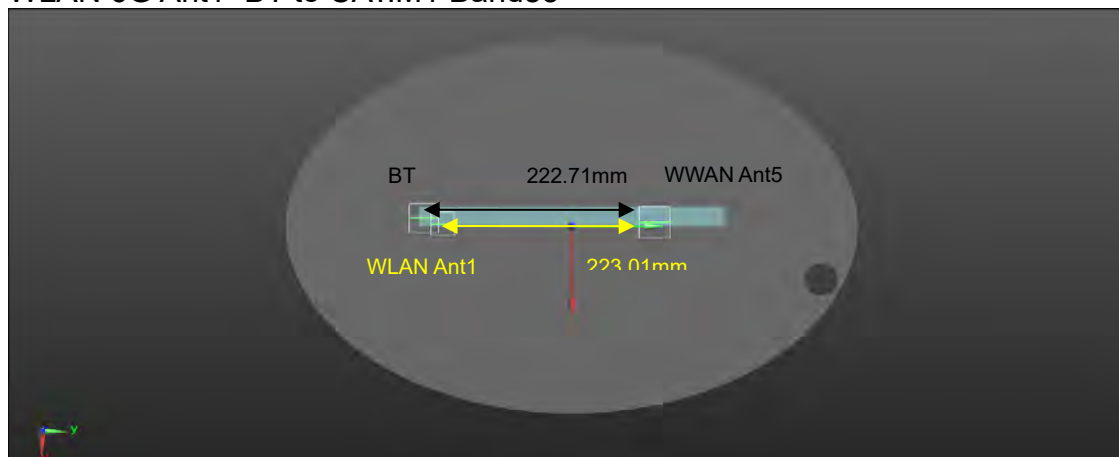
## WLAN 6G Ant1+BT to CAT.M1 Band26 FCC



## WLAN 6G Ant1+BT to CAT.M1 Band66



## WLAN 6G Ant1+BT to CAT.M1 Band85



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| Scenario 3: |                    |                  |                  |       |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|-------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |       |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y     | z     |                     |  |       |                                    |
| Top edge    | WLAN 6G Ant2       | 1.370            | -0.53            | -5.33 | -0.30 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.053            | -0.45            | 10.69 | -0.31 | 2.423               | 160.20                                 | 0.024 | SPLSR $\leq$ 0.04,<br>Not required |
|             | GPRS 1900          | 0.939            | -0.30            | 9.92  | -0.32 | 2.309               | 152.52                                 | 0.023 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 2      | 0.078            | -0.44            | 10.07 | -0.30 | 1.448               | 154.00                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 4      | 0.078            | -0.45            | 9.76  | -0.31 | 1.448               | 150.90                                 | 0.012 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 5      | 0.057            | -0.61            | 10.85 | -0.31 | 1.427               | 161.80                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 12     | 0.045            | -0.45            | 8.45  | -0.31 | 1.415               | 137.80                                 | 0.012 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 13     | 0.060            | -0.45            | 10.85 | -0.31 | 1.430               | 161.80                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 14     | 0.053            | -0.45            | 10.85 | -0.31 | 1.423               | 161.80                                 | 0.010 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 25     | 0.089            | -0.44            | 10.21 | -0.31 | 1.459               | 155.40                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 26_FCC | 0.056            | -0.61            | 10.85 | -0.30 | 1.426               | 161.80                                 | 0.011 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 66     | 0.104            | -0.45            | 9.76  | -0.31 | 1.474               | 150.90                                 | 0.012 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 85     | 0.214            | -0.45            | 8.45  | -0.31 | 1.584               | 137.80                                 | 0.014 | SPLSR $\leq$ 0.04,<br>Not required |

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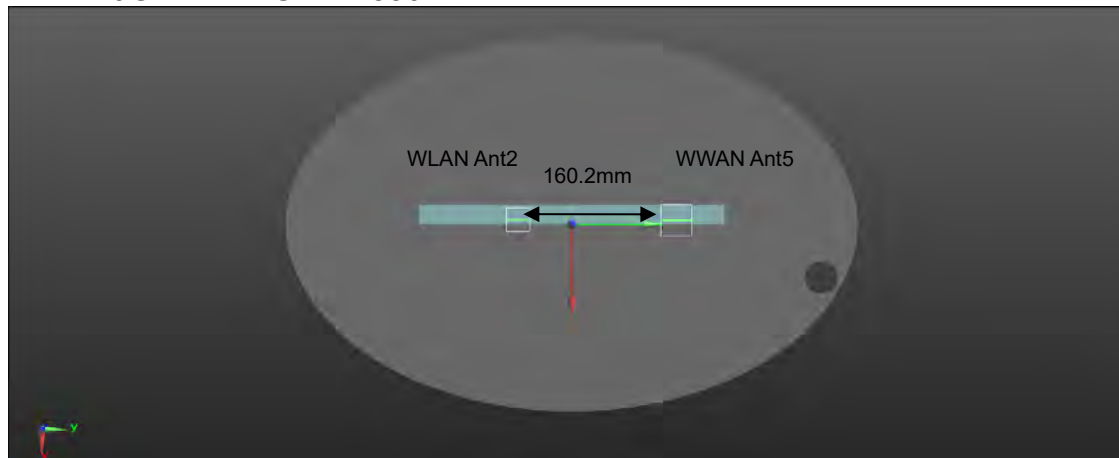
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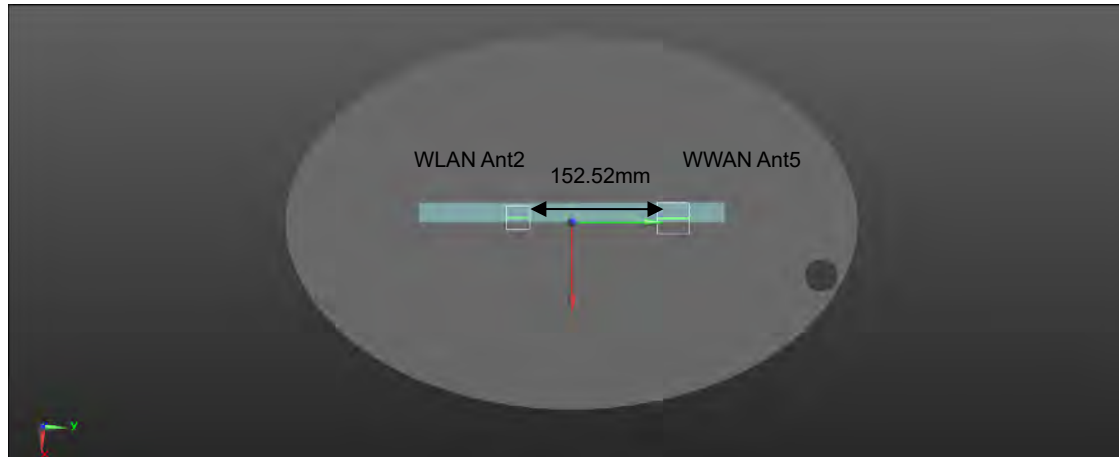
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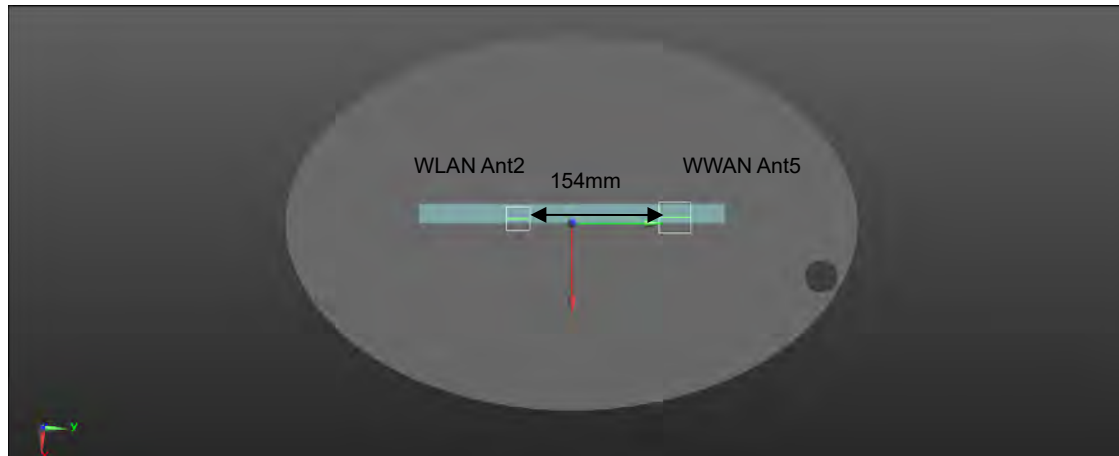
## WLAN 6G Ant2 to GPRS 850



## WLAN 6G Ant2 to GPRS 1900



## WLAN 6G Ant2 to CAT.M1 Band2



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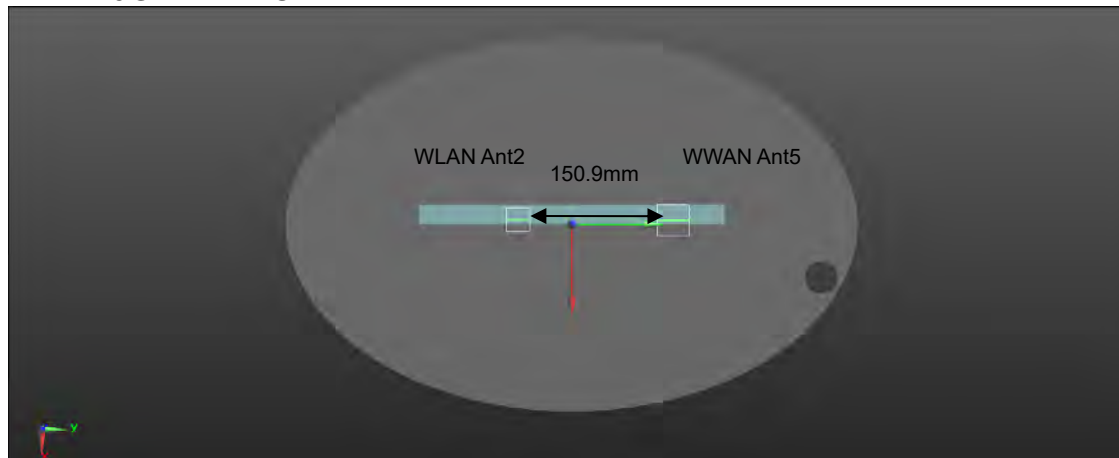
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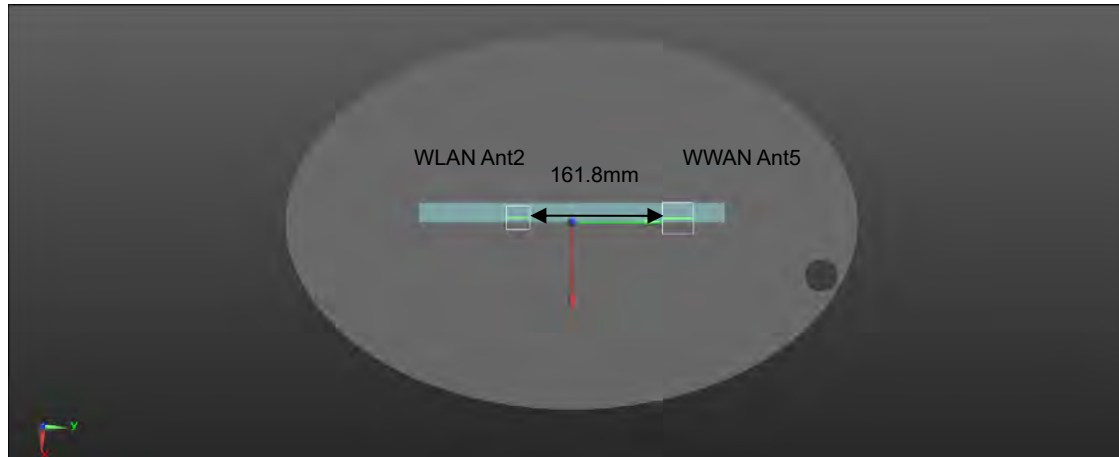
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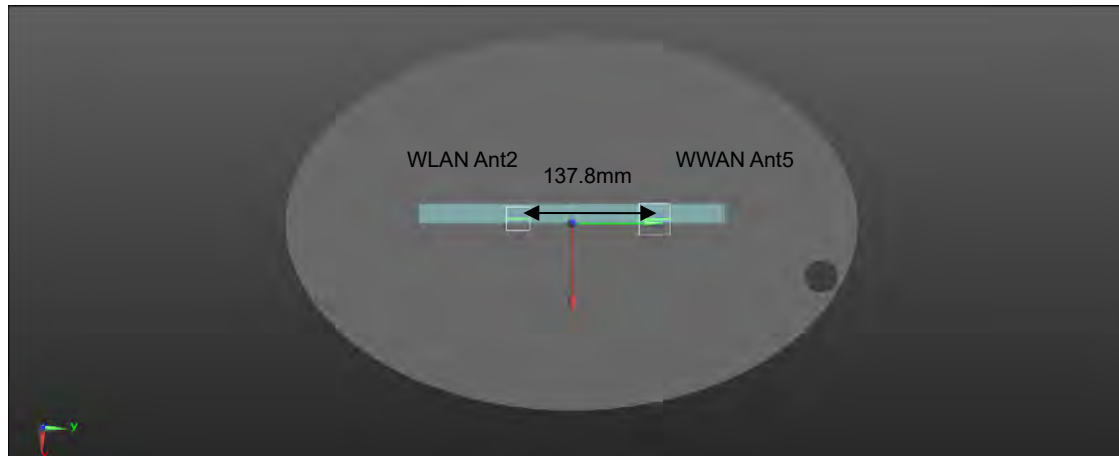
WLAN 6G Ant2 to CAT.M1 Band4



WLAN 6G Ant2 to CAT.M1 Band5



WLAN 6G Ant2 to CAT.M1 Band12



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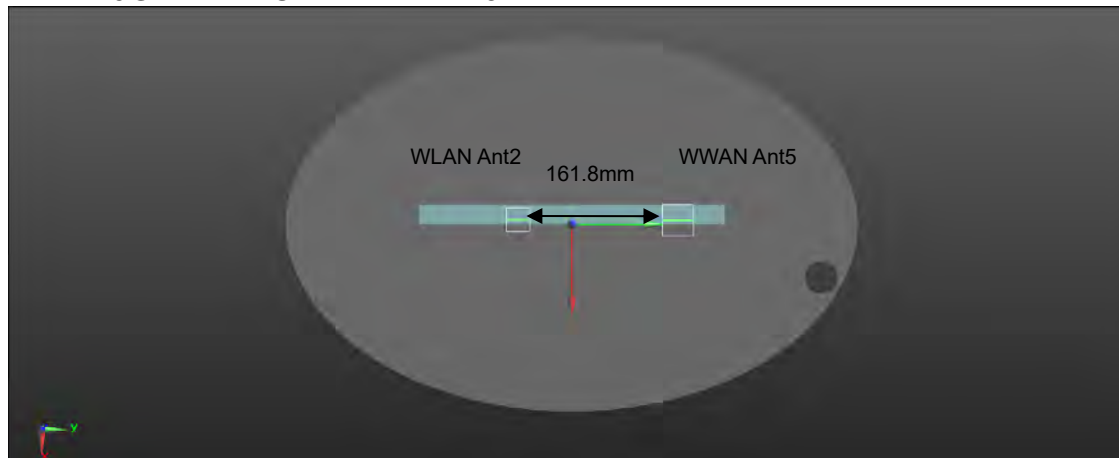
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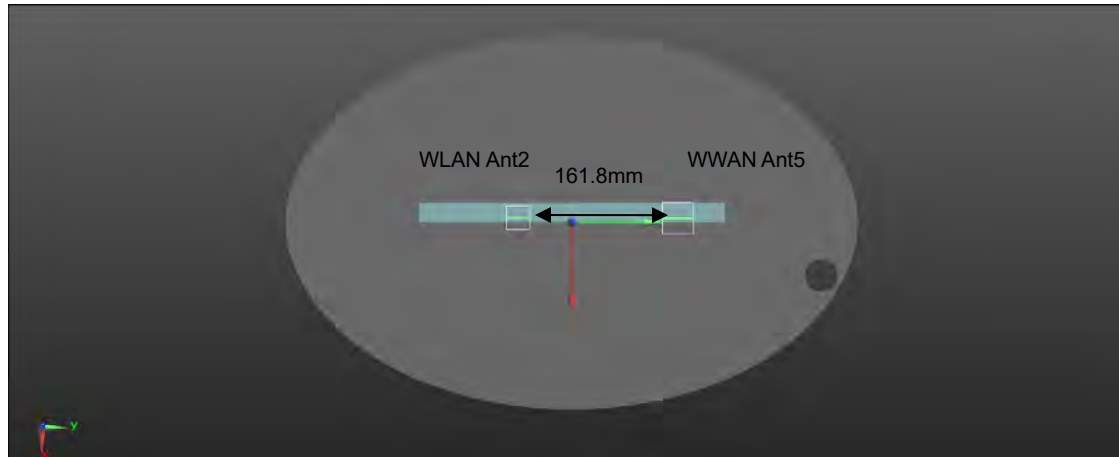
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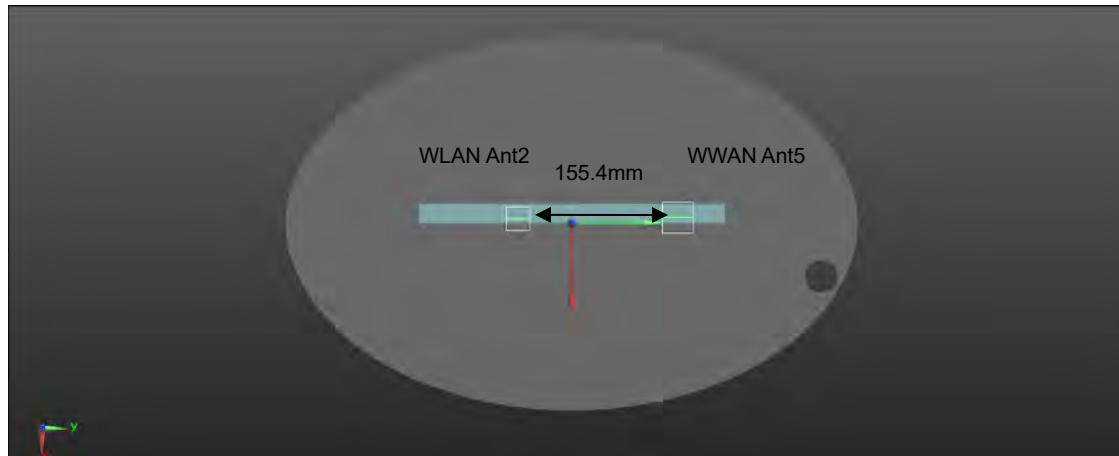
WLAN 6G Ant2 to CAT.M1 Band13



WLAN 6G Ant2 to CAT.M1 Band14



WLAN 6G Ant2 to CAT.M1 Band25



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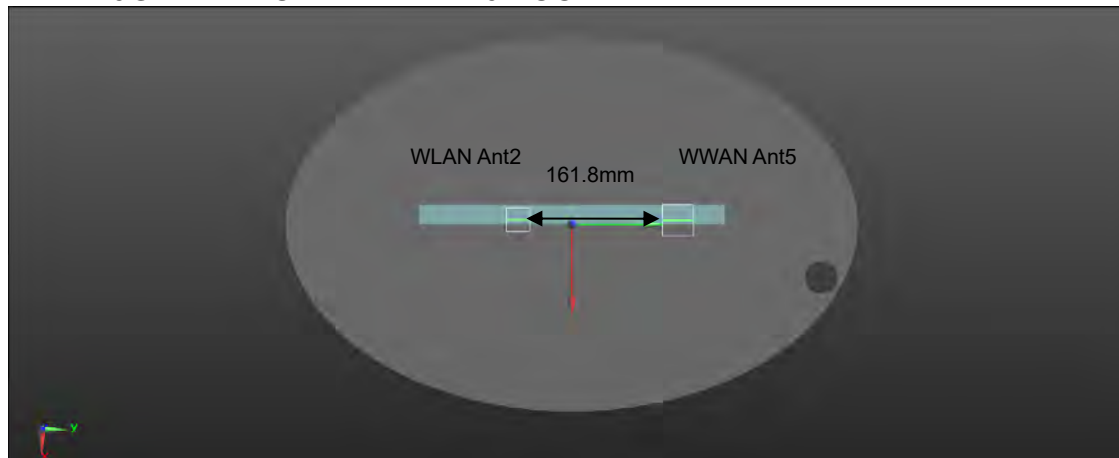
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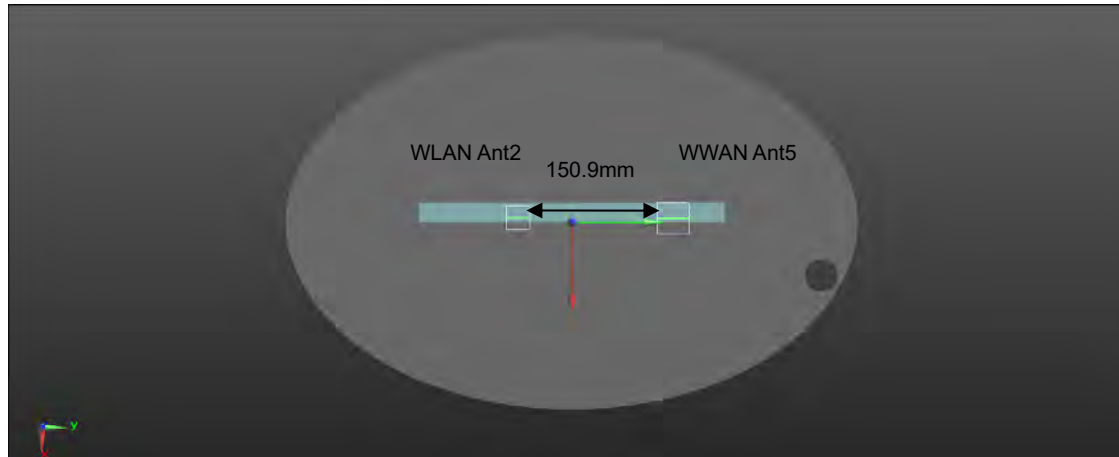
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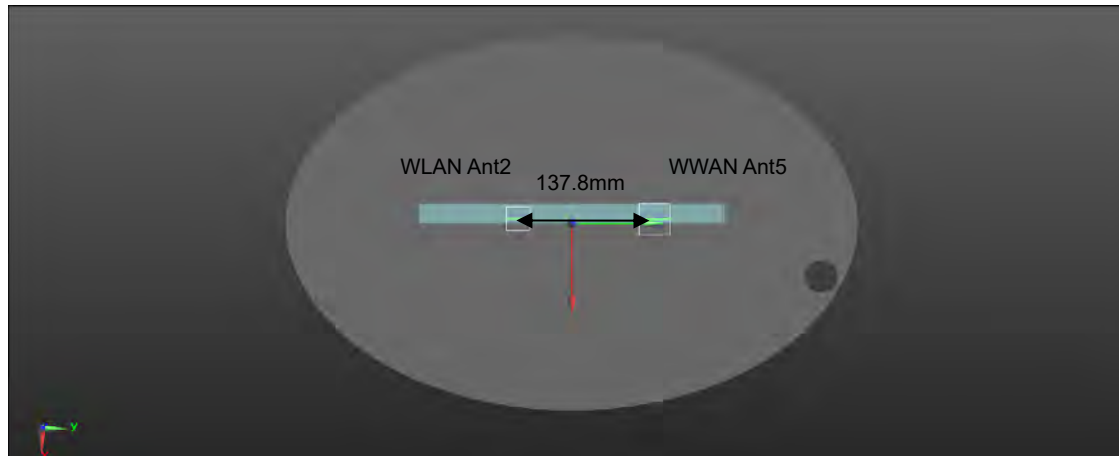
## WLAN 6G Ant2 to CAT.M1 Band26 FCC



## WLAN 6G Ant2 to CAT.M1 Band66



## WLAN 6G Ant2 to CAT.M1 Band85



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## Vendor2

|                    |                   |   | Reported SAR             |  |  |  |  |  |  |  | Scenario 1 | Scenario 2 | Scenario 3 | Scenario 4 | Scenario 5 | Scenario 6 | Scenario 7 | Scenario 8 |
|--------------------|-------------------|---|--------------------------|--|--|--|--|--|--|--|------------|------------|------------|------------|------------|------------|------------|------------|
| WWAN Band          | Exposure Position |   | 1                        | 2  | 3  | 4                                      | 5                                      | 6                                      | 7                                      | 8                                      | 1+2+3      | 1+3+6      | 1+4+5      | 1+5+6      | 1+4+5+6    | 1+7+8      | 1+6+7+8    |            |
|                    |                   |   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz WLAN<br>Ant 1<br>1g SAR<br>(W/kg) | 2.4GHz WLAN<br>Ant 2<br>1g SAR<br>(W/kg) | 5GHz WLAN<br>Ant 1<br>1g SAR<br>(W/kg) | 5GHz WLAN<br>Ant 2<br>1g SAR<br>(W/kg) | Bluetooth<br>Ant 1<br>1g SAR<br>(W/kg) | 6GHz WLAN<br>Ant 1<br>1g SAR<br>(W/kg) | 6GHz WLAN<br>Ant 2<br>1g SAR<br>(W/kg) |            |            |            |            |            |            |            |            |
| GPRS850 <1Dn4Up>   | Back Surface      | 0 | 0.067                    |  |  |  |  |  |  |  | 0.067      | 0.067      | 0.067      | 0.067      | 0.067      | 0.067      | 0.067      |            |
|                    | Top Edge          | 0 | 1.194                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 2.844      | 2.494      | 3.264      | 2.704      | 3.094      | 3.484      | 2.644      | 3.834      |
|                    | Right Edge        | 0 | 0.151                    |  |  |  |  |  |  |  | 0.151      | 0.151      | 0.151      | 0.151      | 0.151      | 0.151      | 0.151      | 0.151      |
| GPRS1900 <1Dn4Up>  | Back Surface      | 0 | 0.090                    |  |  |  |  |  |  |  | 0.090      | 0.090      | 0.090      | 0.090      | 0.090      | 0.090      | 0.090      | 0.090      |
|                    | Top Edge          | 0 | 1.022                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 3.012      | 2.612      | 3.462      | 2.912      | 3.302      | 3.692      | 2.852      | 4.042      |
|                    | Right Edge        | 0 | 0.092                    |  |  |  |  |  |  |  | 0.092      | 0.092      | 0.092      | 0.092      | 0.092      | 0.092      | 0.092      | 0.092      |
| CAT.M1 Band 2      | Back Surface      | 0 | 0.009                    |  |  |  |  |  |  |  | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      |
|                    | Top Edge          | 0 | 0.090                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.740      | 1.380      | 2.160      | 1.600      | 2.500      | 2.380      | 1.540      | 2.730      |
|                    | Right Edge        | 0 | 0.014                    |  |  |  |  |  |  |  | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      |
| CAT.M1 Band 4      | Back Surface      | 0 | 0.010                    |  |  |  |  |  |  |  | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      |
|                    | Top Edge          | 0 | 0.103                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.753      | 1.393      | 2.163      | 1.613      | 2.513      | 2.393      | 1.553      | 2.743      |
|                    | Right Edge        | 0 | 0.014                    |  |  |  |  |  |  |  | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      |
| CAT.M1 Band 5      | Back Surface      | 0 | 0.011                    |  |  |  |  |  |  |  | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      |
|                    | Top Edge          | 0 | 0.078                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.728      | 1.368      | 2.138      | 1.588      | 2.488      | 2.368      | 1.528      | 2.718      |
|                    | Right Edge        | 0 | 0.019                    |  |  |  |  |  |  |  | 0.019      | 0.019      | 0.019      | 0.019      | 0.019      | 0.019      | 0.019      | 0.019      |
| CAT.M1 Band 12     | Back Surface      | 0 | 0.006                    |  |  |  |  |  |  |  | 0.006      | 0.006      | 0.006      | 0.006      | 0.006      | 0.006      | 0.006      | 0.006      |
|                    | Top Edge          | 0 | 0.050                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.700      | 1.340      | 2.110      | 1.560      | 2.460      | 2.340      | 1.500      | 2.690      |
|                    | Right Edge        | 0 | 0.013                    |  |  |  |  |  |  |  | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      |
| CAT.M1 Band 13     | Back Surface      | 0 | 0.009                    |  |  |  |  |  |  |  | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      |
|                    | Top Edge          | 0 | 0.066                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.716      | 1.356      | 2.126      | 1.576      | 2.476      | 2.356      | 1.516      | 2.706      |
|                    | Right Edge        | 0 | 0.017                    |  |  |  |  |  |  |  | 0.017      | 0.017      | 0.017      | 0.017      | 0.017      | 0.017      | 0.017      | 0.017      |
| CAT.M1 Band 14     | Back Surface      | 0 | 0.007                    |  |  |  |  |  |  |  | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      | 0.007      |
|                    | Top Edge          | 0 | 0.067                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.710      | 1.357      | 2.127      | 1.577      | 2.477      | 2.357      | 1.517      | 2.707      |
|                    | Right Edge        | 0 | 0.010                    |  |  |  |  |  |  |  | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      | 0.010      |
| CAT.M1 Band 25     | Back Surface      | 0 | 0.009                    |  |  |  |  |  |  |  | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      | 0.009      |
|                    | Top Edge          | 0 | 0.103                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.753      | 1.393      | 2.163      | 1.613      | 2.513      | 2.393      | 1.553      | 2.743      |
|                    | Right Edge        | 0 | 0.011                    |  |  |  |  |  |  |  | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      |
| CAT.M1 Band 26_FCC | Back Surface      | 0 | 0.011                    |  |  |  |  |  |  |  | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      | 0.011      |
|                    | Top Edge          | 0 | 0.081                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.733      | 1.371      | 2.141      | 1.591      | 2.491      | 2.371      | 1.531      | 2.721      |
|                    | Right Edge        | 0 | 0.014                    |  |  |  |  |  |  |  | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      | 0.014      |
| CAT.M1 Band 66     | Back Surface      | 0 | 0.013                    |  |  |  |  |  |  |  | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      | 0.013      |
|                    | Top Edge          | 0 | 0.125                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.775      | 1.415      | 2.185      | 1.635      | 2.535      | 2.415      | 1.575      | 2.765      |
|                    | Right Edge        | 0 | 0.020                    |  |  |  |  |  |  |  | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      | 0.020      |
| CAT.M1 Band 85     | Back Surface      | 0 | 0.031                    |  |  |  |  |  |  |  | 0.031      | 0.031      | 0.031      | 0.031      | 0.031      | 0.031      | 0.031      | 0.031      |
|                    | Top Edge          | 0 | 0.260                    | 0.710                                    | 0.940                                    | 0.900                                  | 1.160                                  | 0.350                                  | 1.190                                  | 1.100                                  | 1.910      | 1.590      | 2.320      | 1.770      | 2.670      | 2.550      | 1.710      | 2.950      |
|                    | Right Edge        | 0 | 0.035                    |  |  |  |  |  |  |  | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      | 0.035      |

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## SPLSR Vendor2

| Scenario 1: |                    |                  |                  |        |       |             |  |       |                                    |
|-------------|--------------------|------------------|------------------|--------|-------|-------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |        |       | ΣSAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y      | z     |             |  |       |                                    |
|             | WLAN 2.4G Ant1     | 0.710            | -0.40            | -12.64 | -2.93 | -           | -                                      | -     | -                                  |
|             | GPRS 850           | 1.194            | -0.46            | 10.70  | -0.31 | 1.904       | 234.87                                 | 0.011 | SPLSR ≤ 0.04,<br>Not required      |
|             | GPRS 1900          | 1.022            | -0.45            | 10.85  | -0.30 | 1.732       | 236.36                                 | 0.010 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 2      | 0.090            | -0.28            | 11.00  | -0.30 | 0.800       | 237.86                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 4      | 0.103            | -0.29            | 10.06  | -0.31 | 0.813       | 228.52                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 5      | 0.078            | -0.31            | 10.69  | -0.31 | 0.788       | 234.77                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 12     | 0.050            | -0.31            | 8.13   | -0.31 | 0.760       | 209.35                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 13     | 0.066            | -0.31            | 10.69  | -0.30 | 0.776       | 234.77                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 14     | 0.067            | -0.31            | 10.69  | -0.30 | 0.777       | 234.77                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 25     | 0.103            | -0.29            | 11.17  | -0.31 | 0.813       | 239.55                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 26_FCC | 0.081            | -0.31            | 10.69  | -0.31 | 0.791       | 234.77                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 66     | 0.125            | -0.30            | 10.25  | -0.30 | 0.835       | 230.40                                 | 0.003 | SPLSR ≤ 0.04,<br>Not required      |
|             | CAT.M1 Band 85     | 0.260            | -0.16            | 10.53  | -0.31 | 0.970       | 233.19                                 | 0.004 | SPLSR ≤ 0.04,<br>Not required      |

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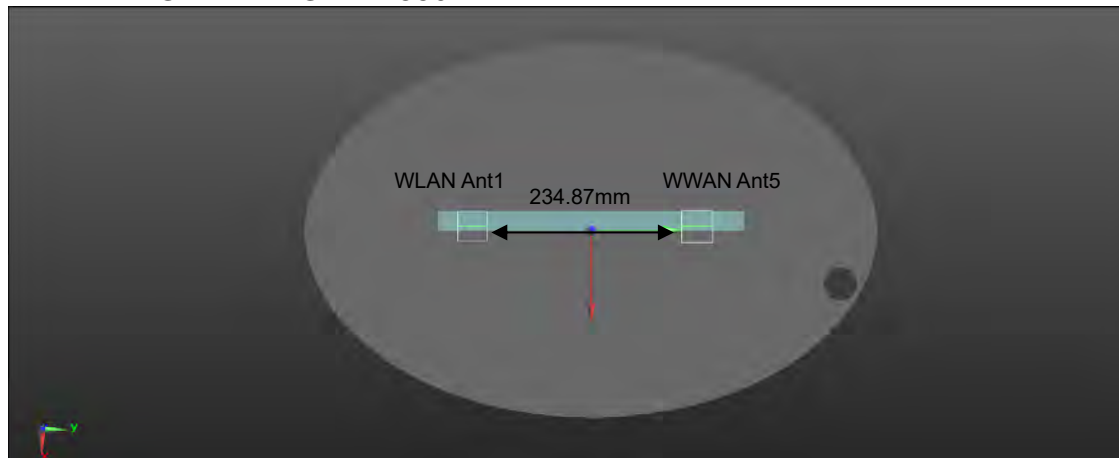
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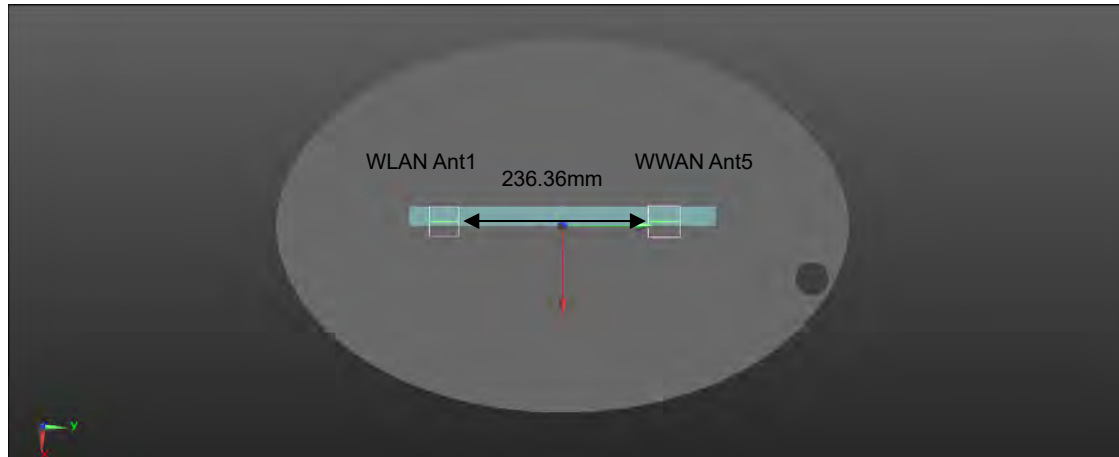
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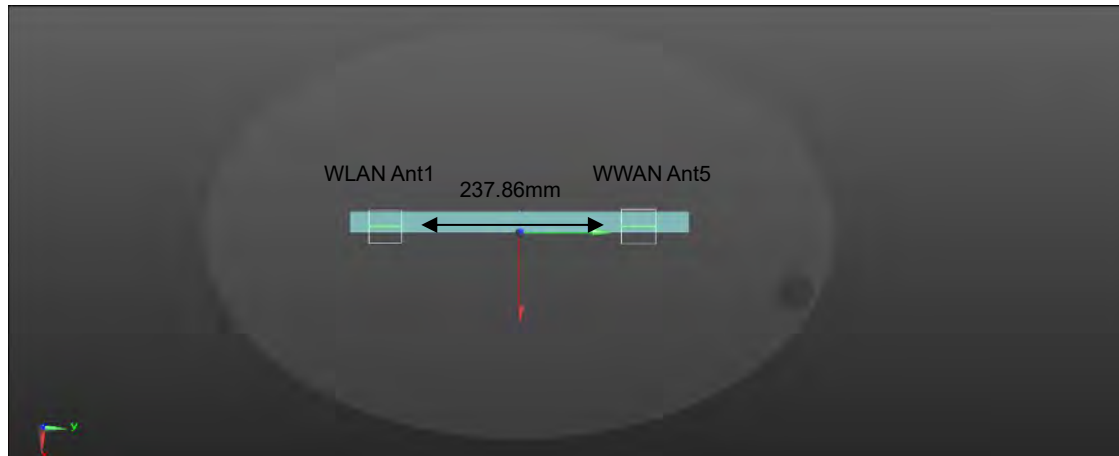
## WLAN 2.4G Ant1 to GPRS 850



## WLAN 2.4G Ant1 to GPRS 1900



## WLAN 2.4G Ant1 to CAT.M1 Band 2



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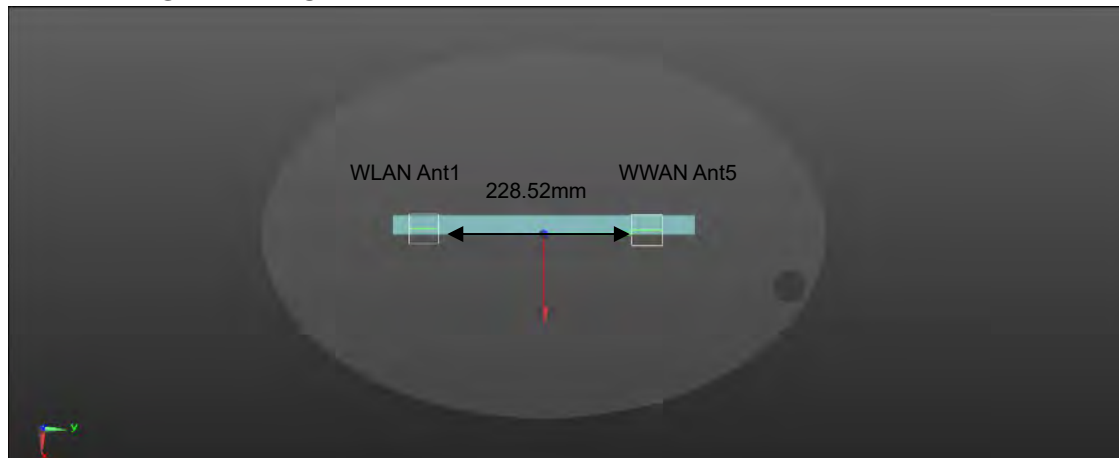
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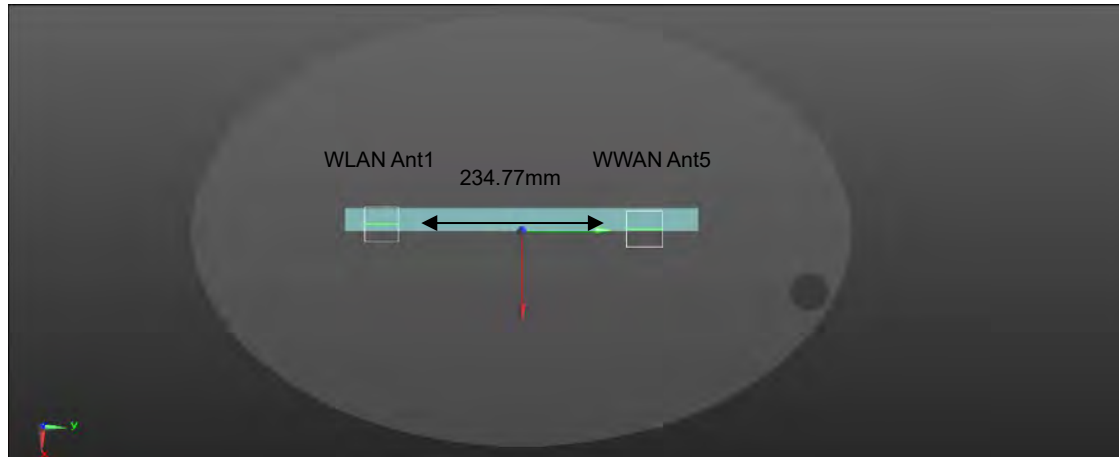
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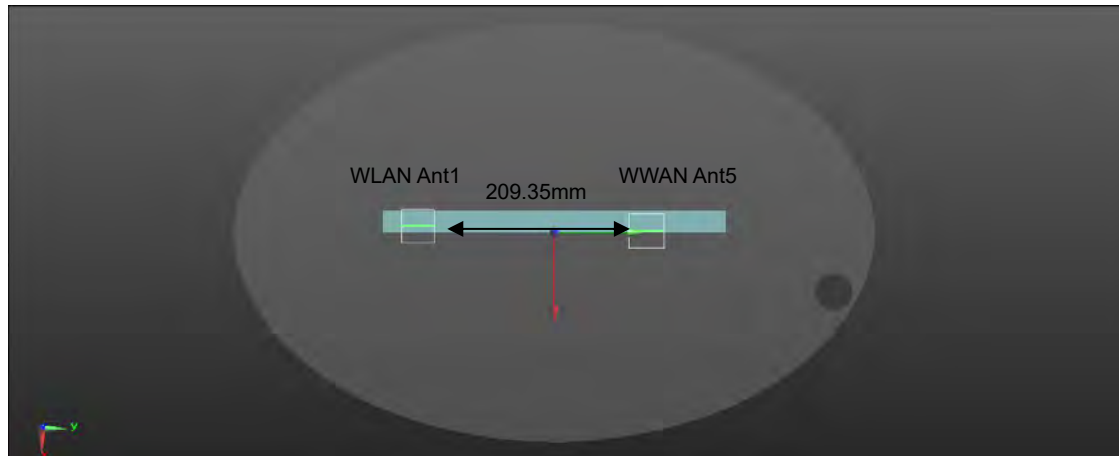
## WLAN 2.4G Ant1 to CAT.M1 Band 4



## WLAN 2.4G Ant1 to CAT.M1 Band 5



## WLAN 2.4G Ant1 to CAT.M1 Band 12



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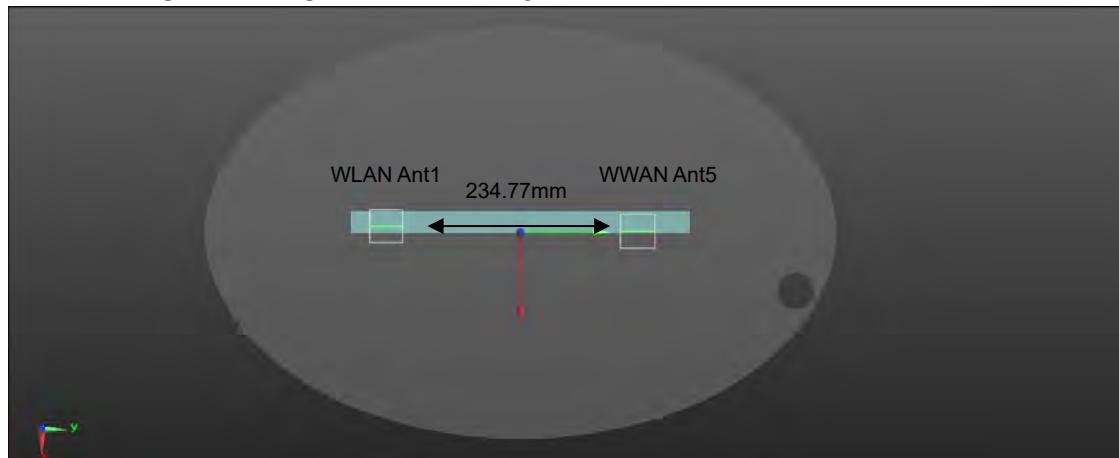
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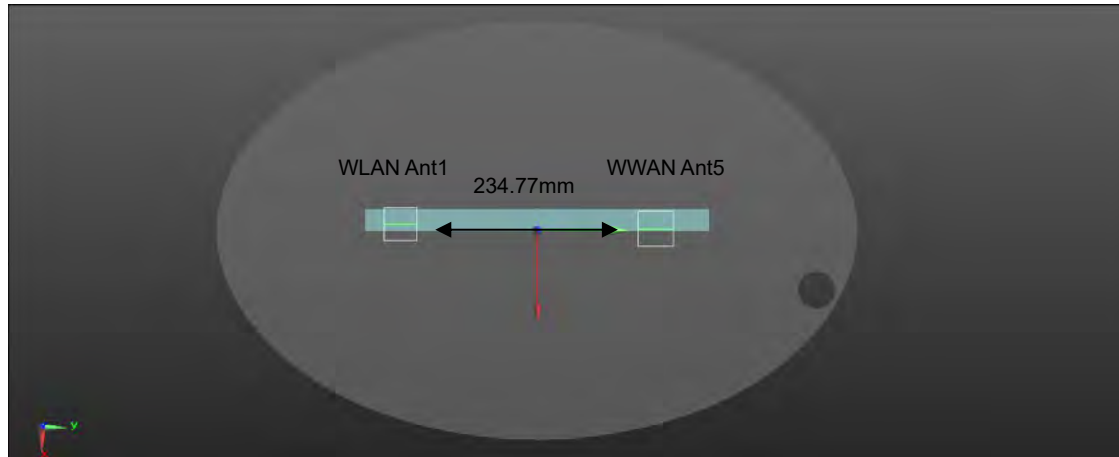
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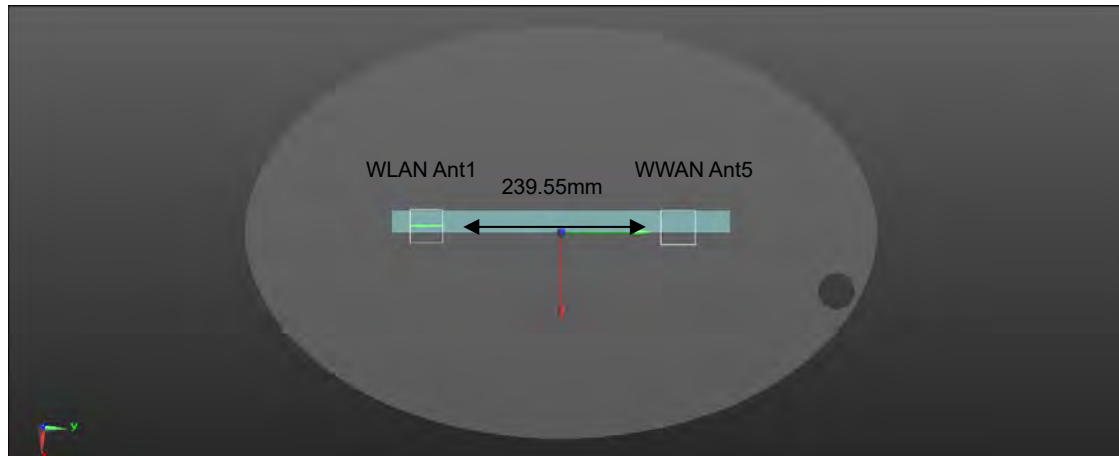
## WLAN 2.4G Ant1 to CAT.M1 Band 13



## WLAN 2.4G Ant1 to CAT.M1 Band 14



## WLAN 2.4G Ant1 to CAT.M1 Band 25



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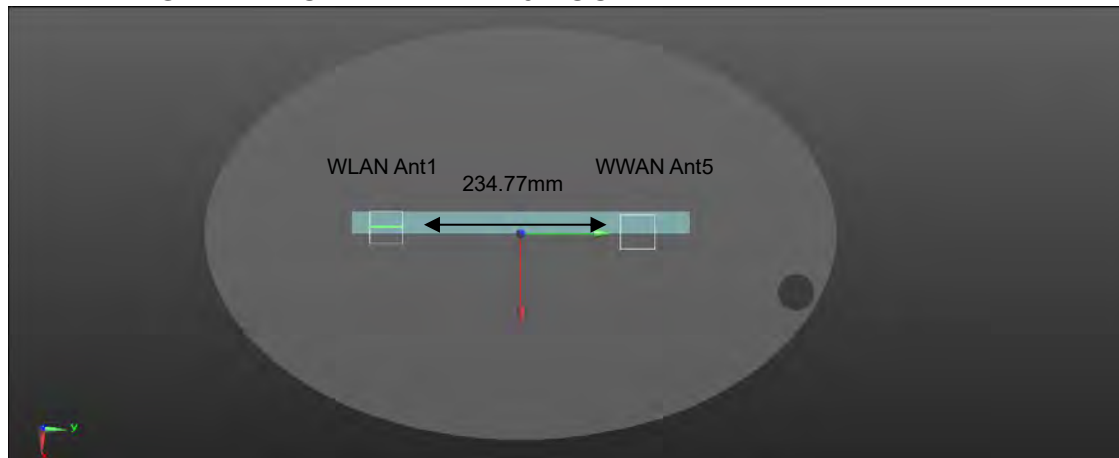
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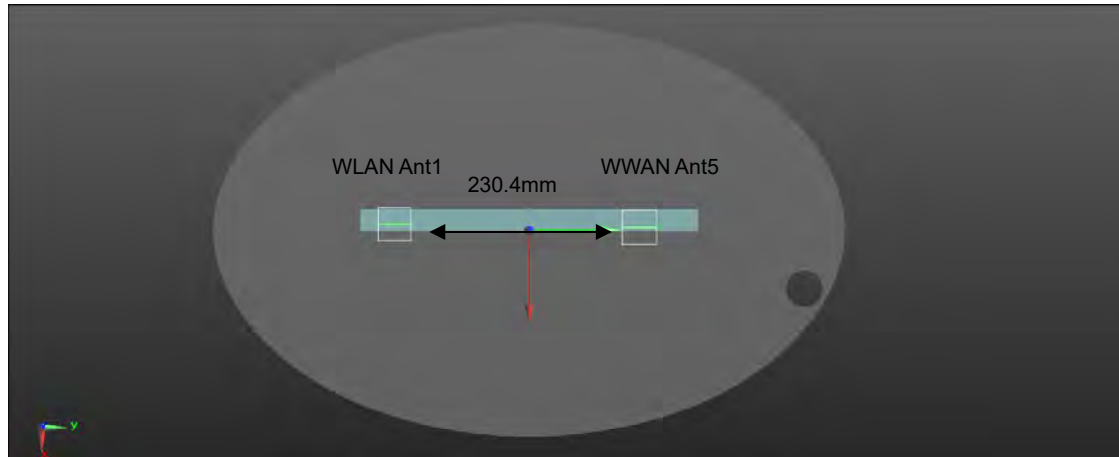
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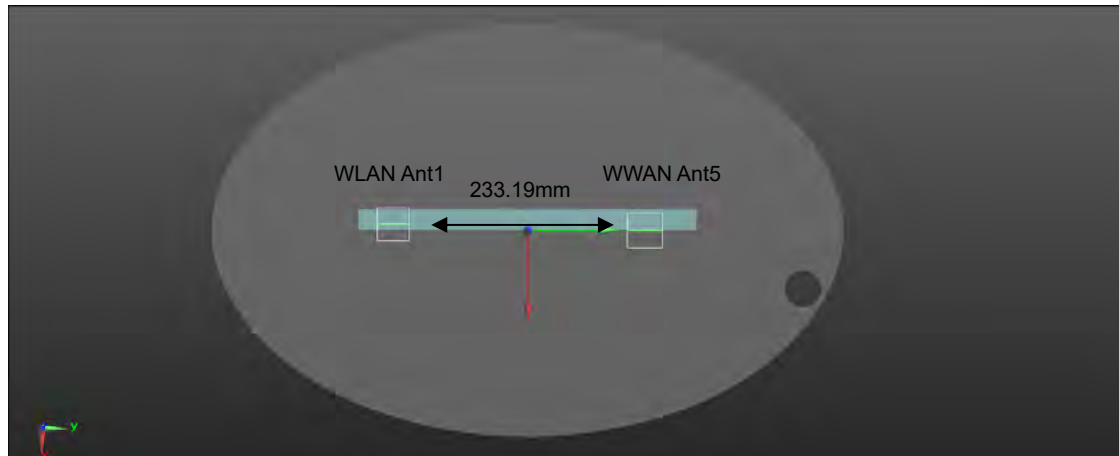
## WLAN 2.4G Ant1 to CAT.M1 Band 26 FCC



## WLAN 2.4G Ant1 to CAT.M1 Band 66



## WLAN 2.4G Ant1 to CAT.M1 Band 85



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| Scenario 1: |                    |                  |                  |       |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|-------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |       |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y     | z     |                     |  |       |                                    |
| Top edge    | WLAN 2.4G Ant2     | 0.940            | -0.50            | -5.18 | -0.32 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.194            | -0.46            | 10.70 | -0.31 | 2.134               | 158.80                                 | 0.020 | SPLSR $\leq$ 0.04, Not required    |
|             | GPRS 1900          | 1.022            | -0.45            | 10.85 | -0.30 | 1.962               | 160.30                                 | 0.017 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 2      | 0.090            | -0.28            | 11.00 | -0.30 | 1.030               | 161.82                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 4      | 0.103            | -0.29            | 10.06 | -0.31 | 1.043               | 152.41                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 5      | 0.078            | -0.31            | 10.69 | -0.31 | 1.018               | 158.71                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 12     | 0.050            | -0.31            | 8.13  | -0.31 | 0.990               | 133.11                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 13     | 0.066            | -0.31            | 10.69 | -0.30 | 1.006               | 158.71                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 14     | 0.067            | -0.31            | 10.69 | -0.30 | 1.007               | 158.71                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 25     | 0.103            | -0.29            | 11.17 | -0.31 | 1.043               | 163.51                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 26_FCC | 0.081            | -0.31            | 10.69 | -0.31 | 1.021               | 158.71                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 66     | 0.125            | -0.30            | 10.25 | -0.30 | 1.065               | 154.31                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 85     | 0.260            | -0.16            | 10.53 | -0.31 | 1.200               | 157.14                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |

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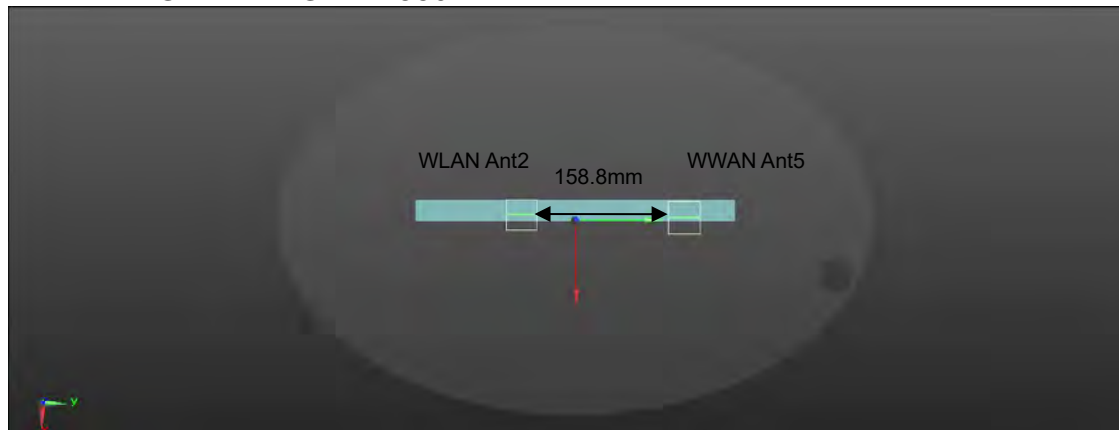
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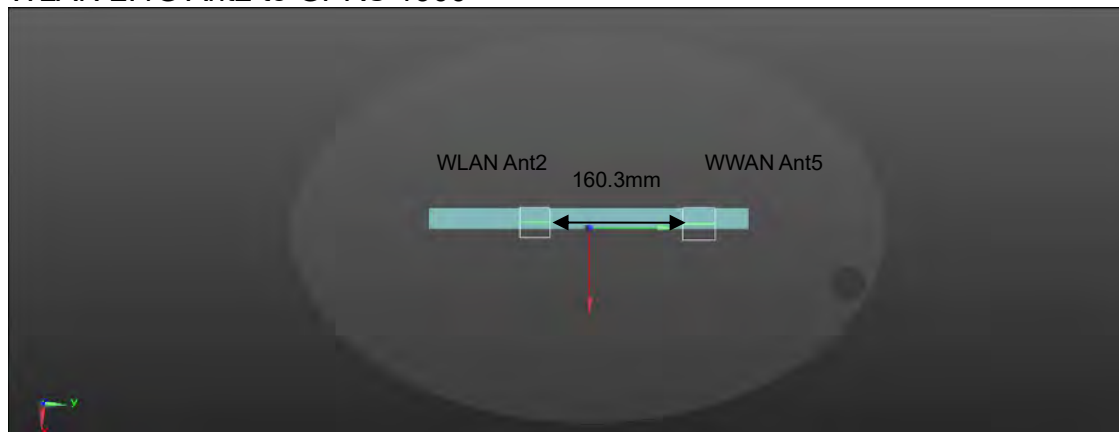
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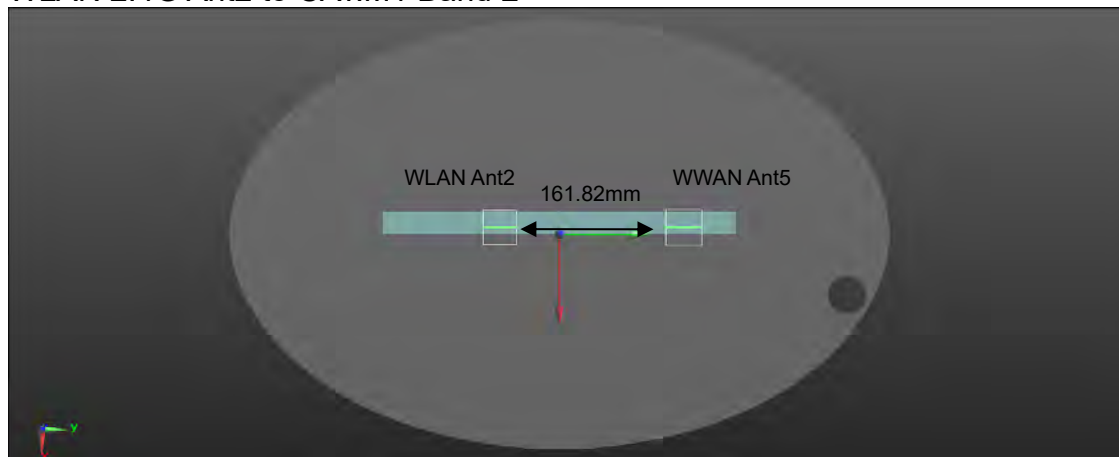
## WLAN 2.4G Ant2 to GPRS 850



## WLAN 2.4G Ant2 to GPRS 1900



## WLAN 2.4G Ant2 to CAT.M1 Band 2



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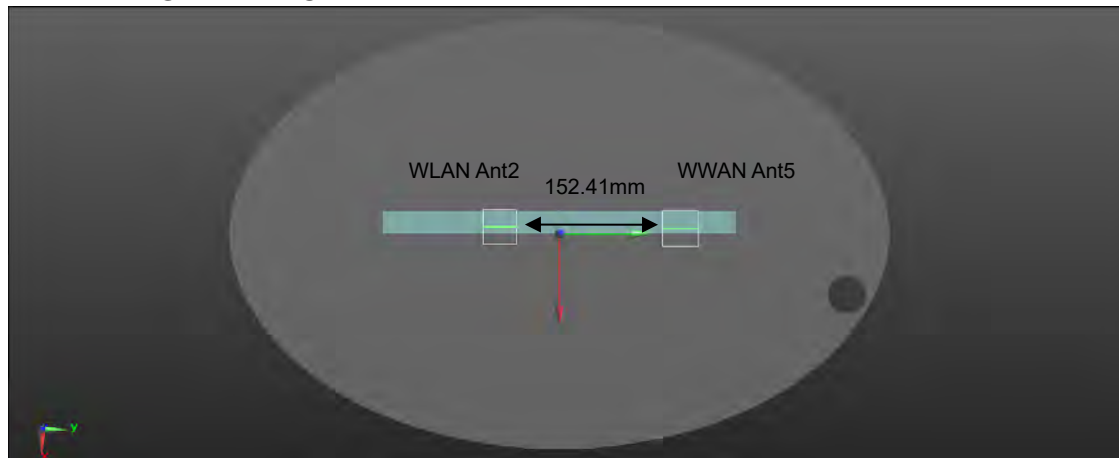
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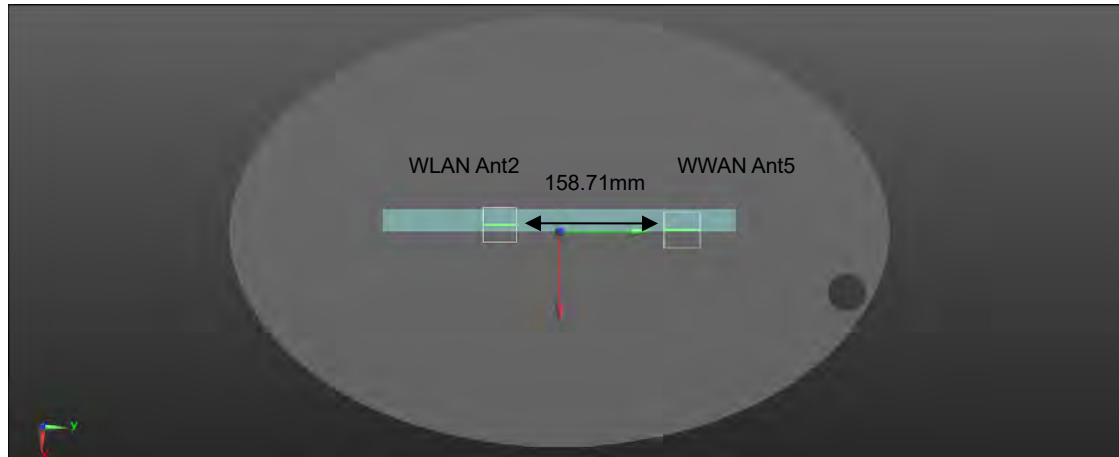
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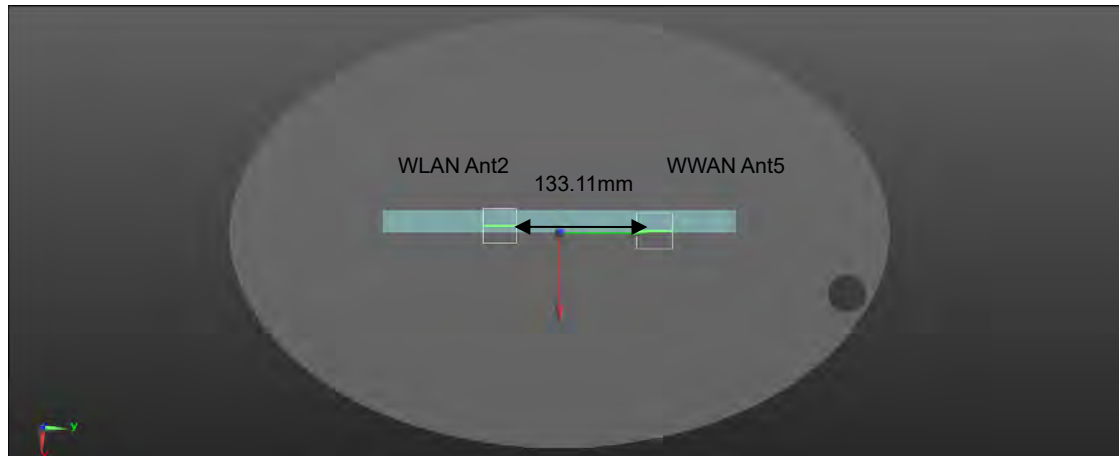
## WLAN 2.4G Ant2 to CAT.M1 Band 4



## WLAN 2.4G Ant2 to CAT.M1 Band 5



## WLAN 2.4G Ant2 to CAT.M1 Band 12



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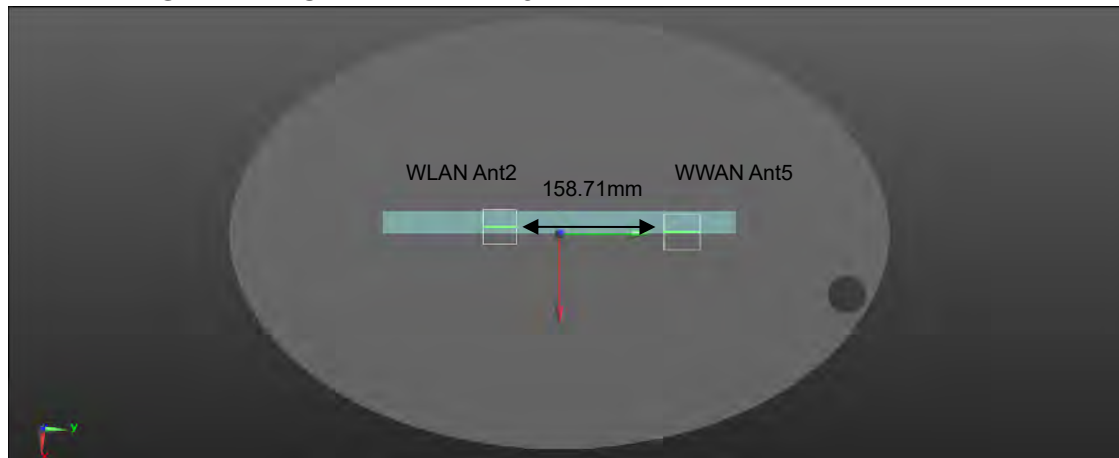
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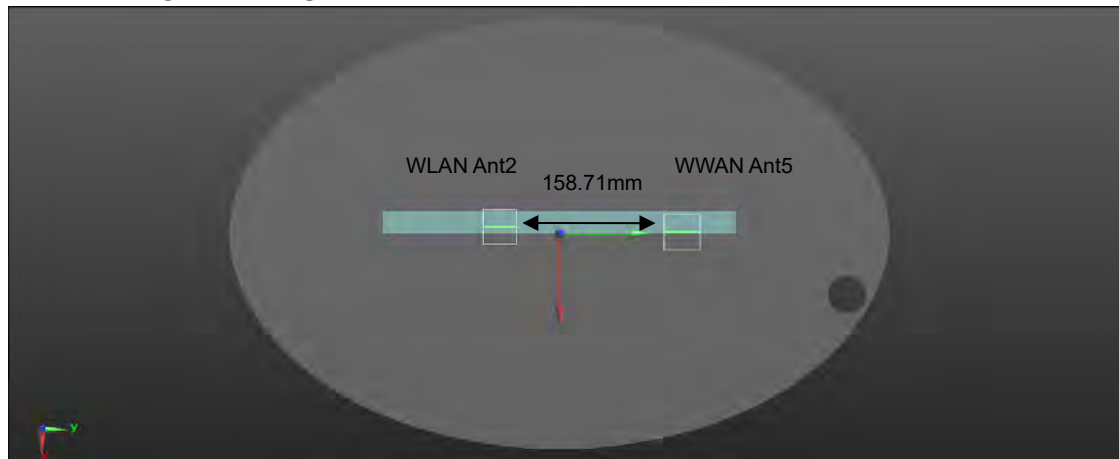
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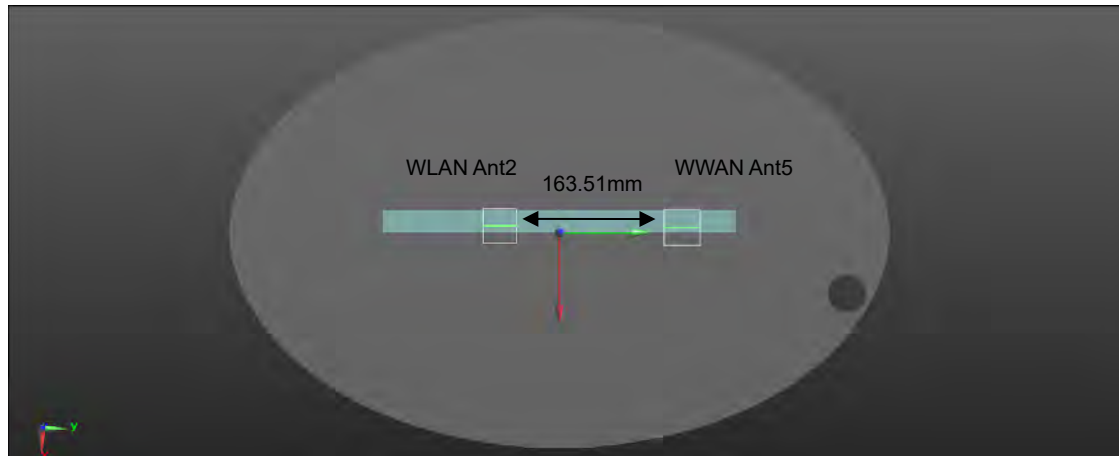
## WLAN 2.4G Ant2 to CAT.M1 Band 13



## WLAN 2.4G Ant2 to CAT.M1 Band 14



## WLAN 2.4G Ant2 to CAT.M1 Band 25



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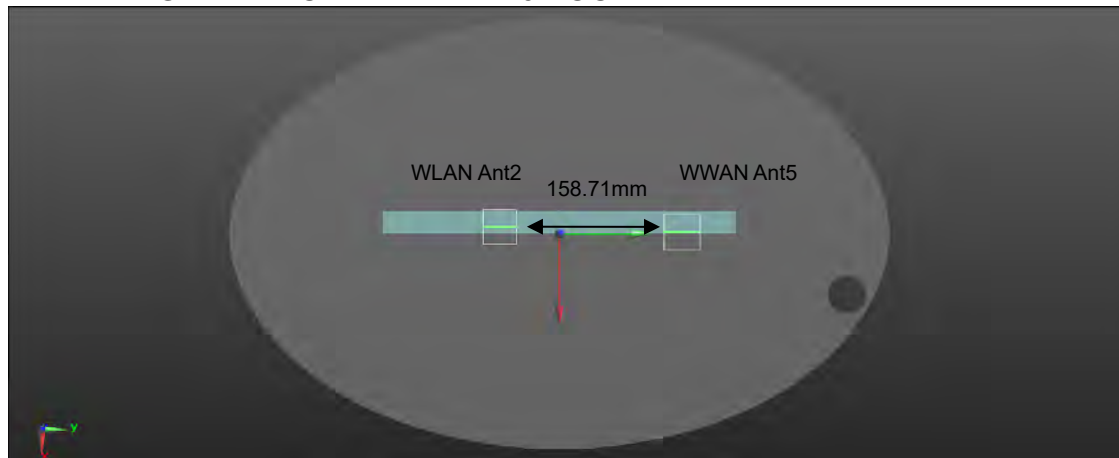
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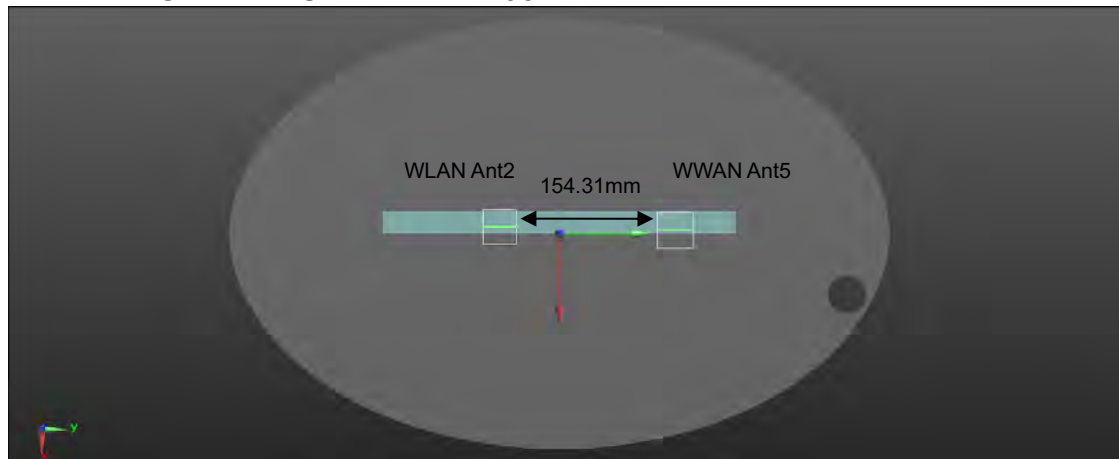
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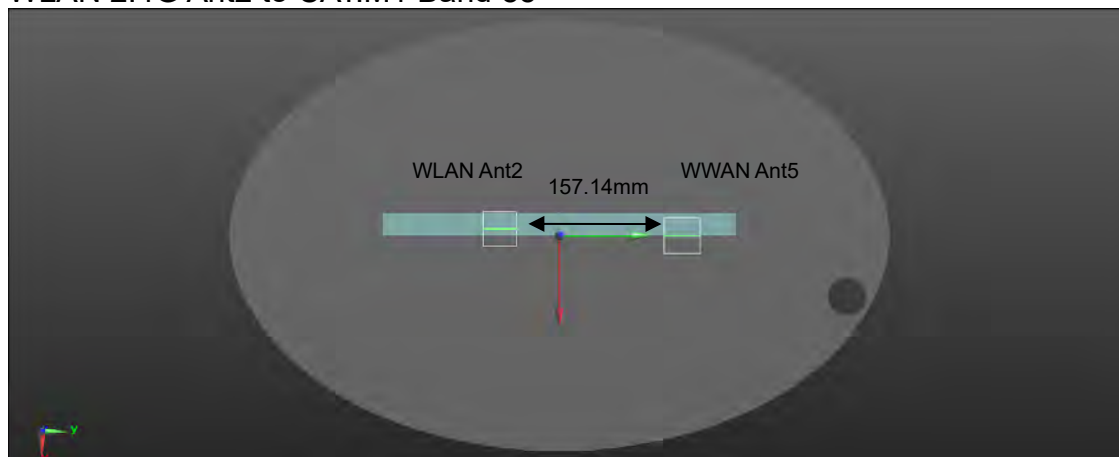
## WLAN 2.4G Ant2 to CAT.M1 Band 26 FCC



## WLAN 2.4G Ant2 to CAT.M1 Band 66



## WLAN 2.4G Ant2 to CAT.M1 Band 85



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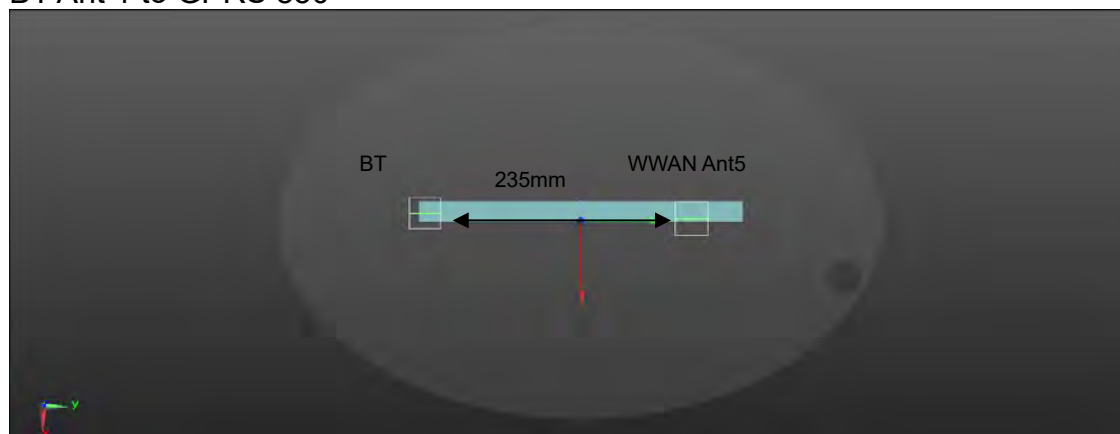
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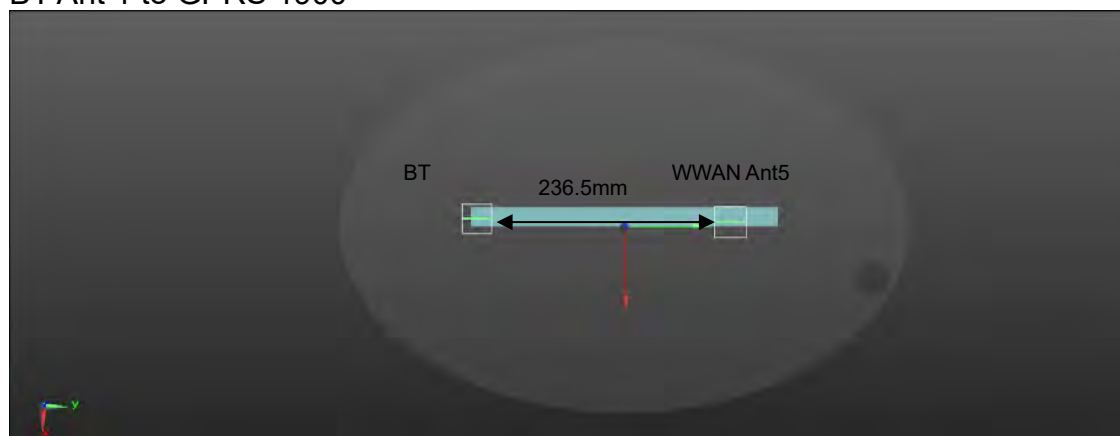
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| Scenario 1 |            |                  |                  |        |       |                     |  |       |                                    |
|------------|------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position   | Conditions | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|            |            |                  | x                | y      | z     |                     |  |       |                                    |
| Top edge   | BT Ant 1   | 0.350            | -0.42            | -12.80 | -0.29 | -                   | -                                      | -     | -                                  |
|            | GPRS 850   | 1.194            | -0.46            | 10.70  | -0.31 | 1.544               | 235.00                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|            | GPRS 1900  | 1.022            | -0.45            | 10.85  | -0.30 | 1.372               | 236.50                                 | 0.007 | SPLSR $\leq$ 0.04,<br>Not required |

## BT Ant 1 to GPRS 850



## BT Ant 1 to GPRS 1900



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| Scenario 2: |                    |                  |                  |        |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y      | z     |                     |  |       |                                    |
| Top edge    | WLAN 5G Ant1+ BT   | 1.250            | -0.42            | -12.80 | -0.29 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.194            | -0.46            | 10.70  | -0.31 | 2.444               | 235.00                                 | 0.016 | SPLSR $\leq$ 0.04, Not required    |
|             | GPRS 1900          | 1.022            | -0.45            | 10.85  | -0.30 | 2.272               | 236.50                                 | 0.014 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 2      | 0.090            | -0.28            | 11.00  | -0.30 | 1.340               | 238.00                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 4      | 0.103            | -0.29            | 10.06  | -0.31 | 1.353               | 228.60                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 5      | 0.078            | -0.31            | 10.69  | -0.31 | 1.328               | 234.90                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 12     | 0.050            | -0.31            | 8.13   | -0.31 | 1.300               | 209.30                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 13     | 0.066            | -0.31            | 10.69  | -0.30 | 1.316               | 234.90                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 14     | 0.067            | -0.31            | 10.69  | -0.30 | 1.317               | 234.90                                 | 0.006 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 25     | 0.103            | -0.29            | 11.17  | -0.31 | 1.353               | 239.70                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 26_FCC | 0.081            | -0.31            | 10.69  | -0.31 | 1.331               | 234.90                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 66     | 0.125            | -0.30            | 10.25  | -0.30 | 1.375               | 230.50                                 | 0.007 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 85     | 0.260            | -0.16            | 10.53  | -0.31 | 1.510               | 233.31                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |

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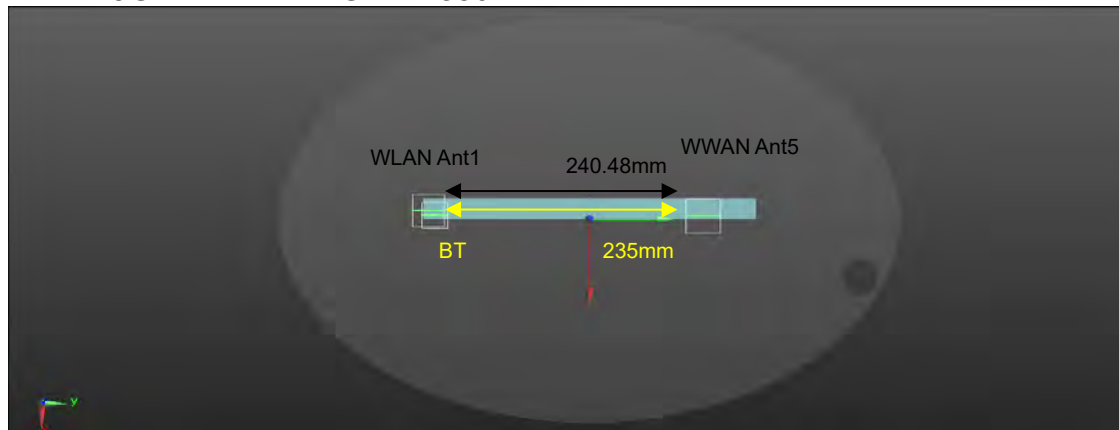
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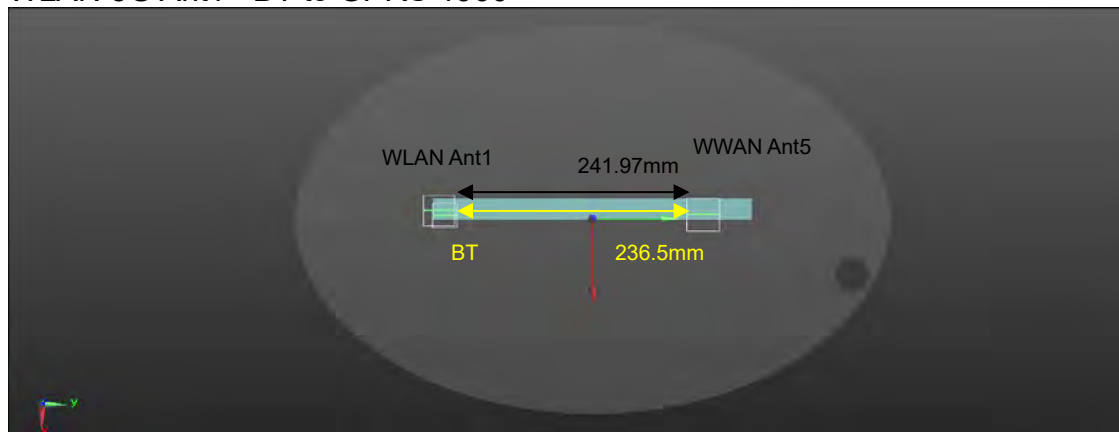
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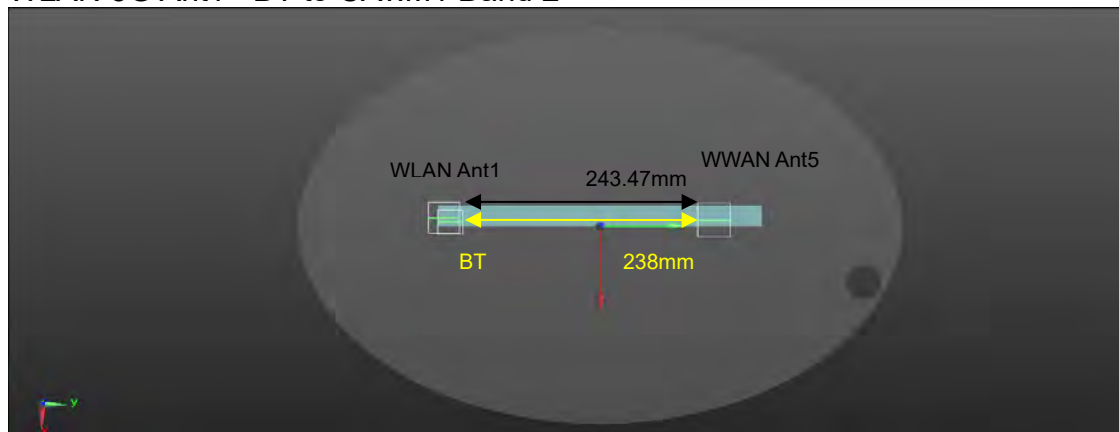
## WLAN 5G Ant1+ BT to GPRS 850



## WLAN 5G Ant1+ BT to GPRS 1900



## WLAN 5G Ant1+ BT to CAT.M1 Band 2



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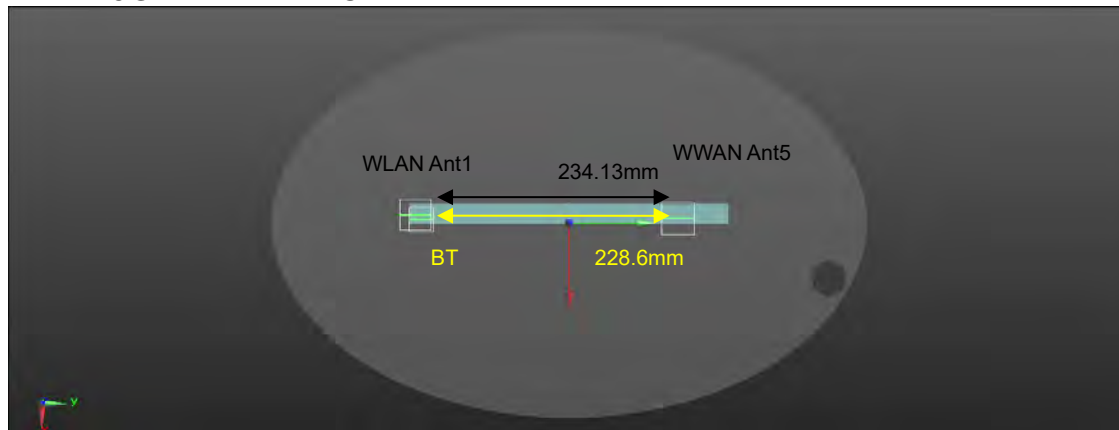
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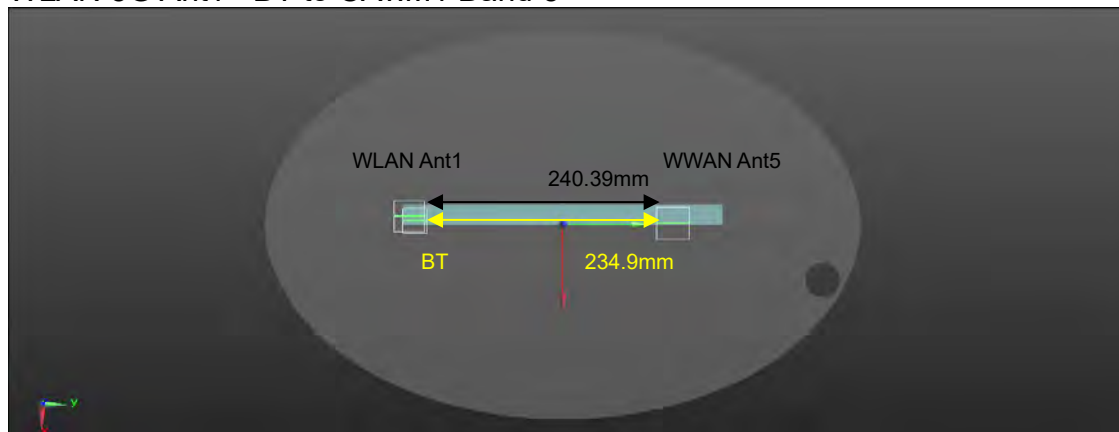
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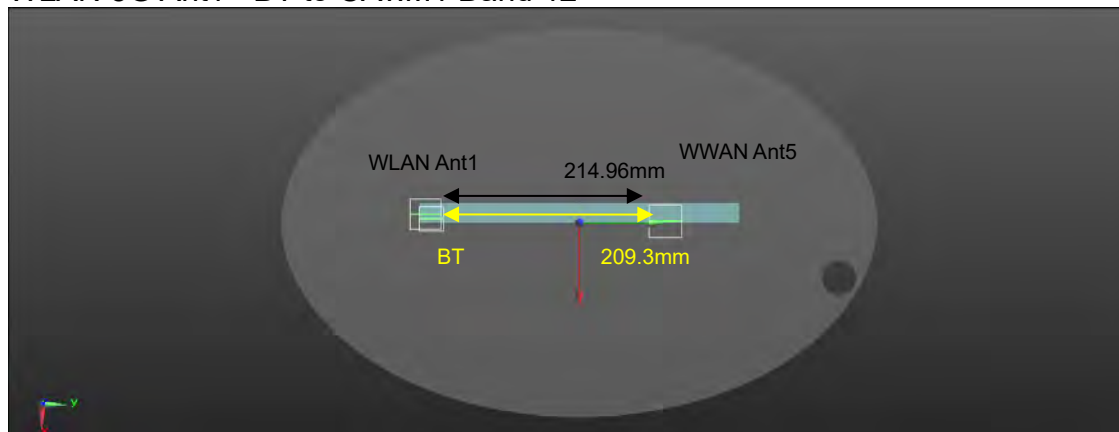
## WLAN 5G Ant1+ BT to CAT.M1 Band 4



## WLAN 5G Ant1+ BT to CAT.M1 Band 5



## WLAN 5G Ant1+ BT to CAT.M1 Band 12



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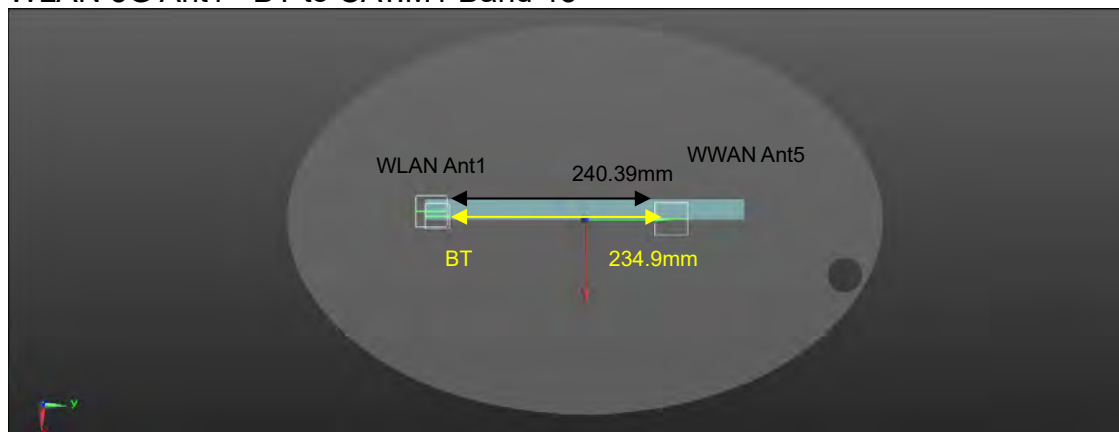
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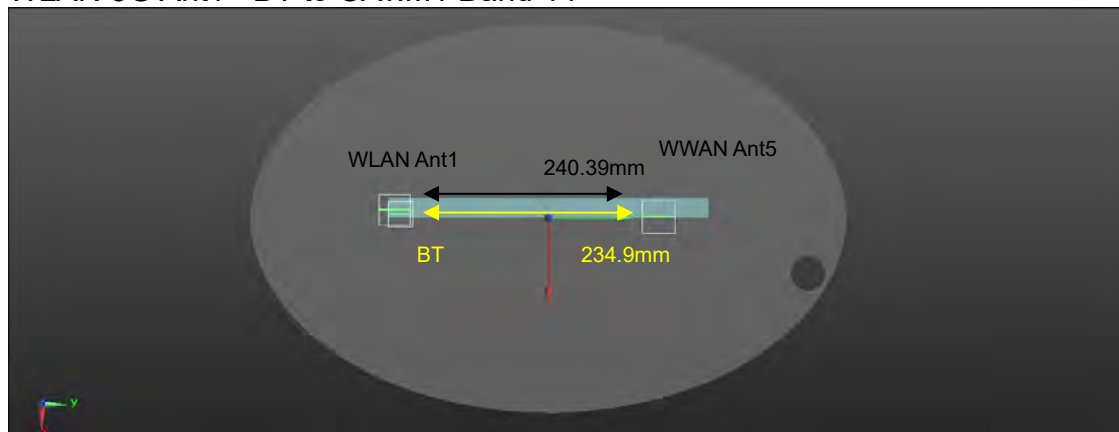
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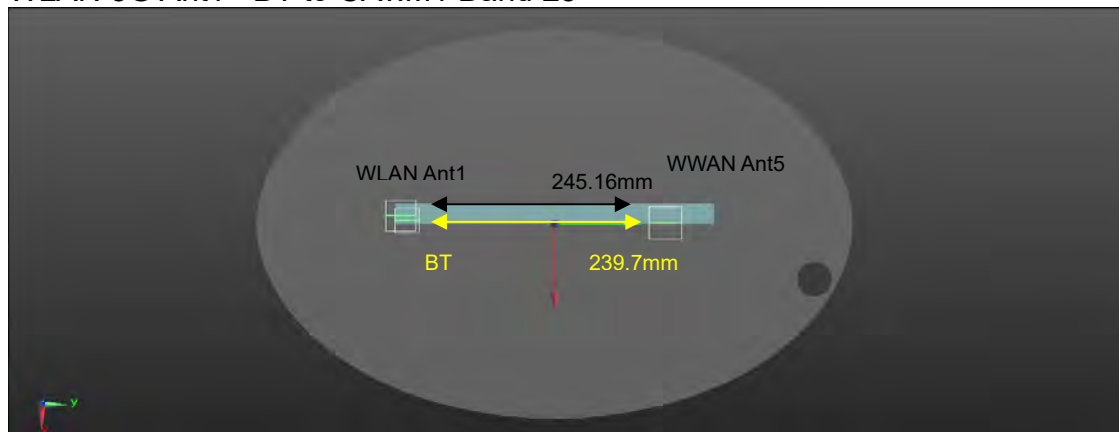
## WLAN 5G Ant1+ BT to CAT.M1 Band 13



## WLAN 5G Ant1+ BT to CAT.M1 Band 14



## WLAN 5G Ant1+ BT to CAT.M1 Band 25



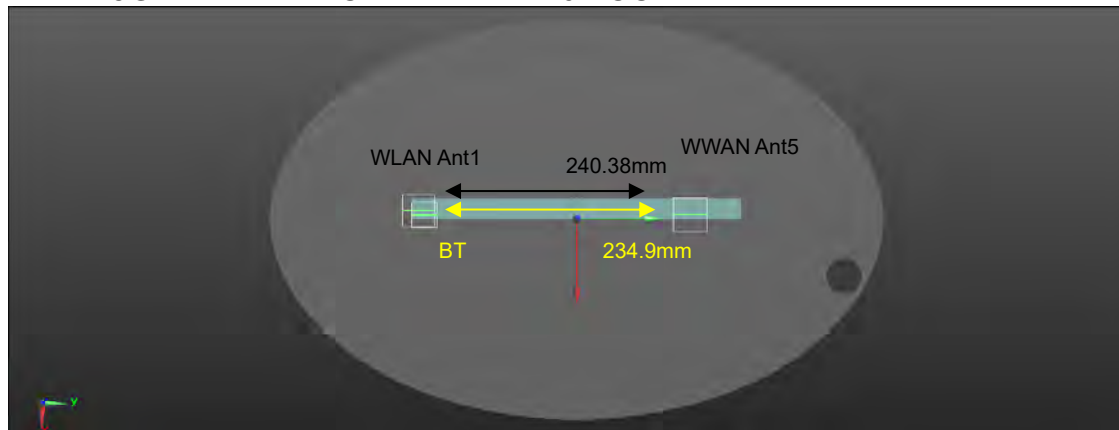
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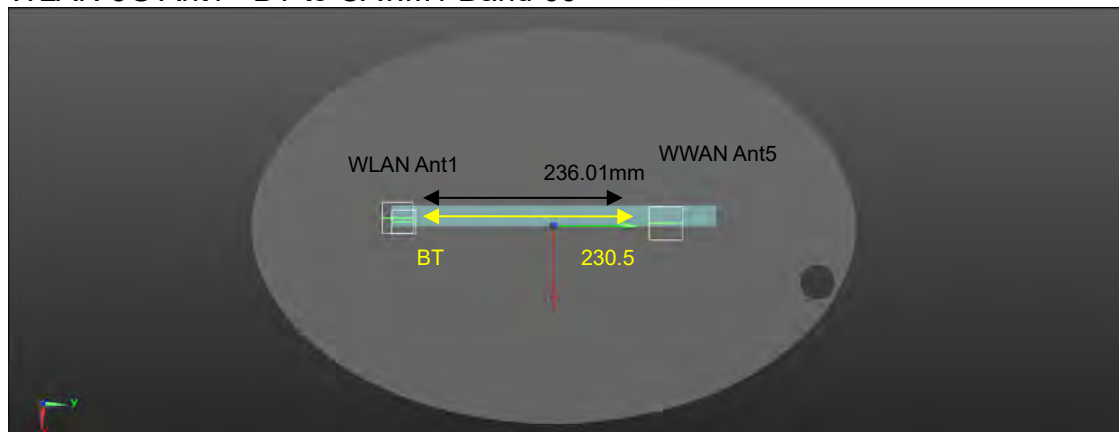
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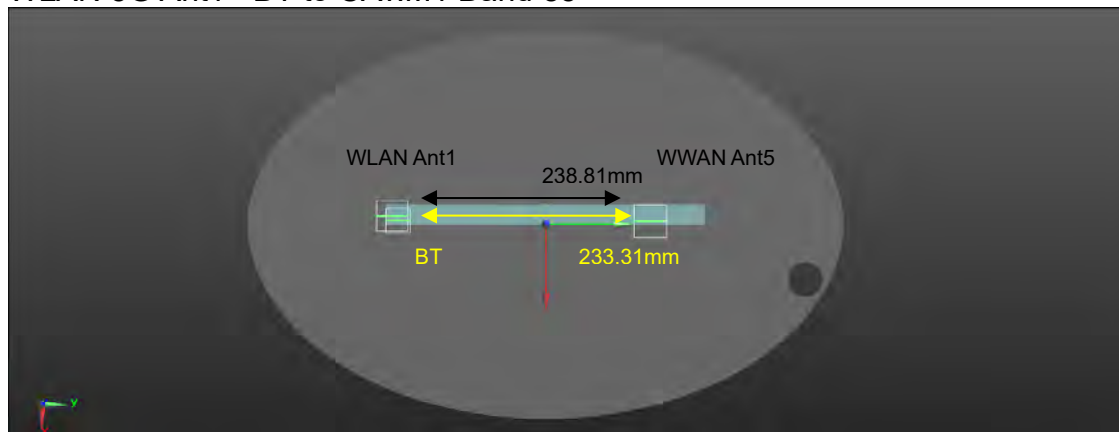
## WLAN 5G Ant1+ BT to CAT.M1 Band 26 FCC



## WLAN 5G Ant1+ BT to CAT.M1 Band 66



## WLAN 5G Ant1+ BT to CAT.M1 Band 85



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| Scenario 2: |                    |                  |                  |       |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|-------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |       |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y     | z     |                     |  |       |                                    |
| Top edge    | WLAN 5G Ant2       | 1.160            | -0.48            | -5.56 | -0.32 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.194            | -0.46            | 10.70 | -0.31 | 2.354               | 162.60                                 | 0.022 | SPLSR $\leq$ 0.04, Not required    |
|             | GPRS 1900          | 1.022            | -0.45            | 10.85 | -0.30 | 2.182               | 164.10                                 | 0.020 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 2      | 0.090            | -0.28            | 11.00 | -0.30 | 1.250               | 165.61                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 4      | 0.103            | -0.29            | 10.06 | -0.31 | 1.263               | 156.21                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 5      | 0.078            | -0.31            | 10.69 | -0.31 | 1.238               | 162.51                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 12     | 0.050            | -0.31            | 8.13  | -0.31 | 1.210               | 136.91                                 | 0.010 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 13     | 0.066            | -0.31            | 10.69 | -0.30 | 1.226               | 162.51                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 14     | 0.067            | -0.31            | 10.69 | -0.30 | 1.227               | 162.51                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 25     | 0.103            | -0.29            | 11.17 | -0.31 | 1.263               | 167.31                                 | 0.008 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 26_FCC | 0.081            | -0.31            | 10.69 | -0.31 | 1.241               | 162.51                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 66     | 0.125            | -0.30            | 10.25 | -0.30 | 1.285               | 158.11                                 | 0.009 | SPLSR $\leq$ 0.04, Not required    |
|             | CAT.M1 Band 85     | 0.260            | -0.16            | 10.53 | -0.31 | 1.420               | 160.93                                 | 0.011 | SPLSR $\leq$ 0.04, Not required    |

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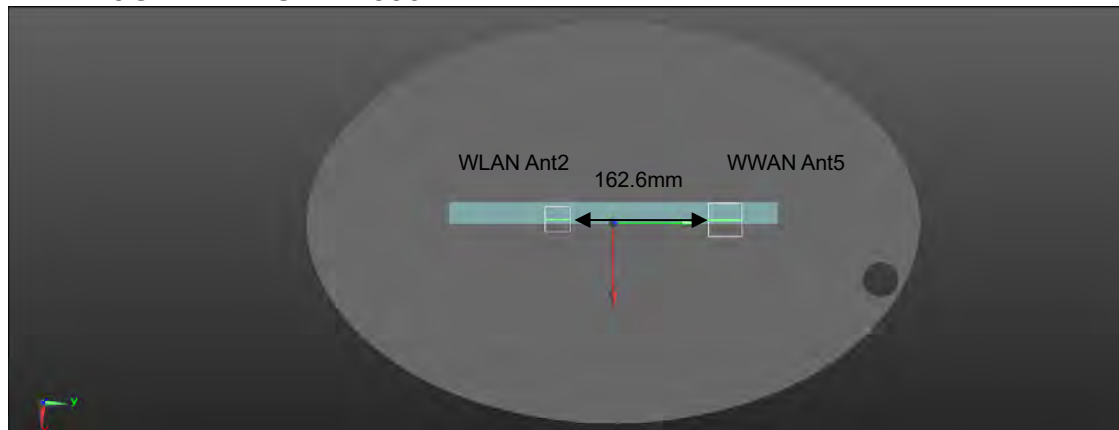
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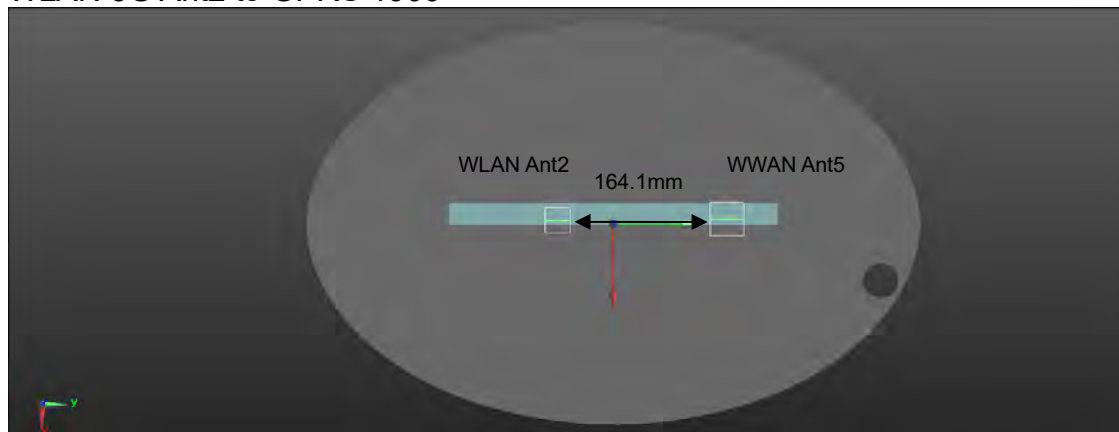
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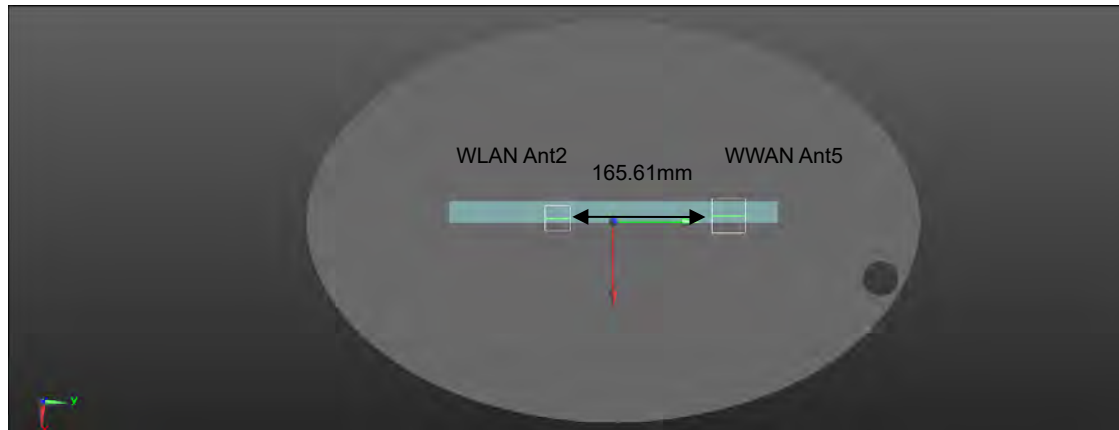
WLAN 5G Ant2 to GPRS 850



WLAN 5G Ant2 to GPRS 1900



WLAN 5G Ant2 to CAT.M1 Band 2



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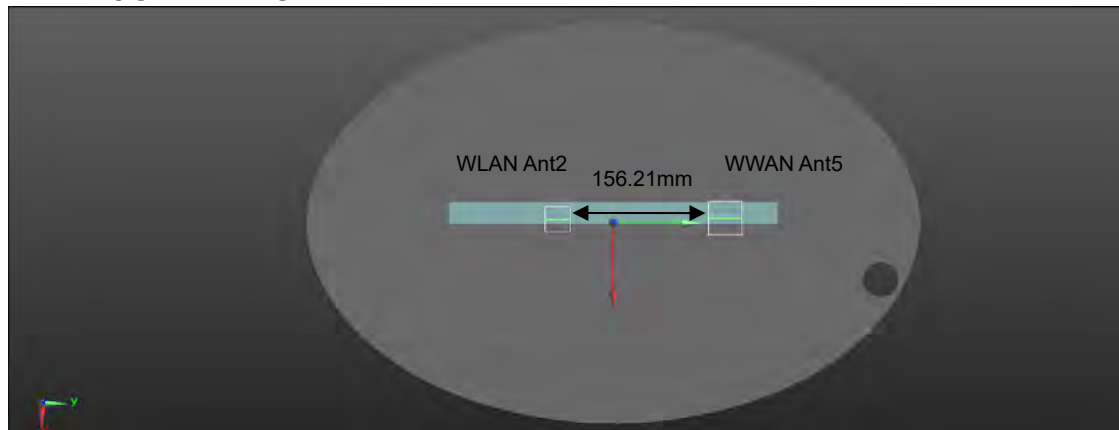
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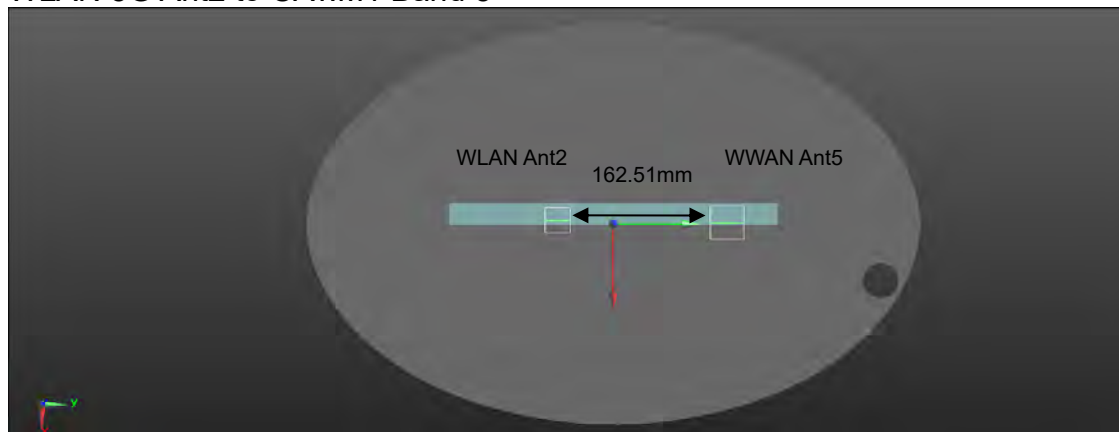
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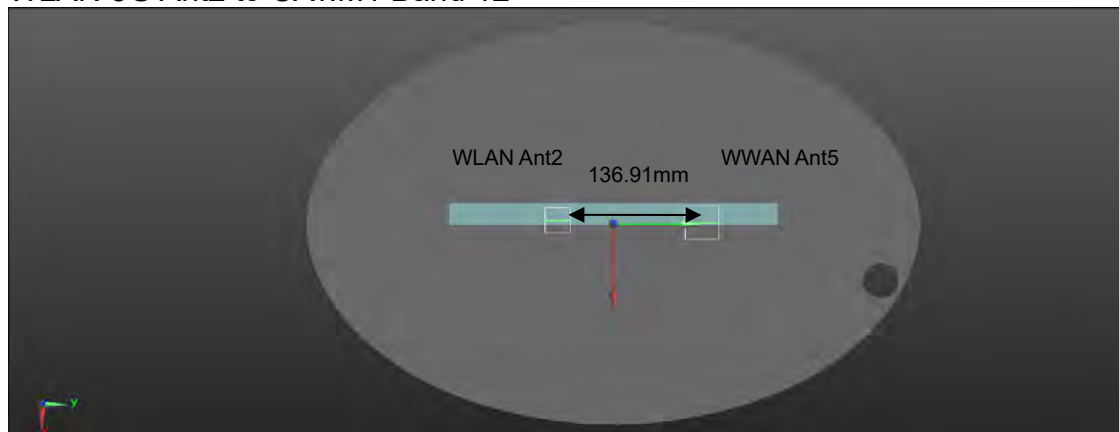
## WLAN 5G Ant2 to CAT.M1 Band 4



## WLAN 5G Ant2 to CAT.M1 Band 5



## WLAN 5G Ant2 to CAT.M1 Band 12



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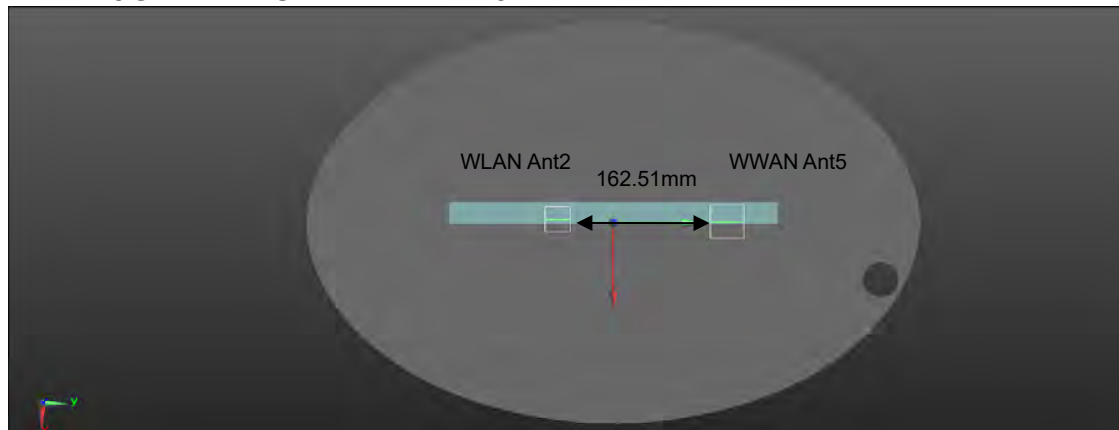
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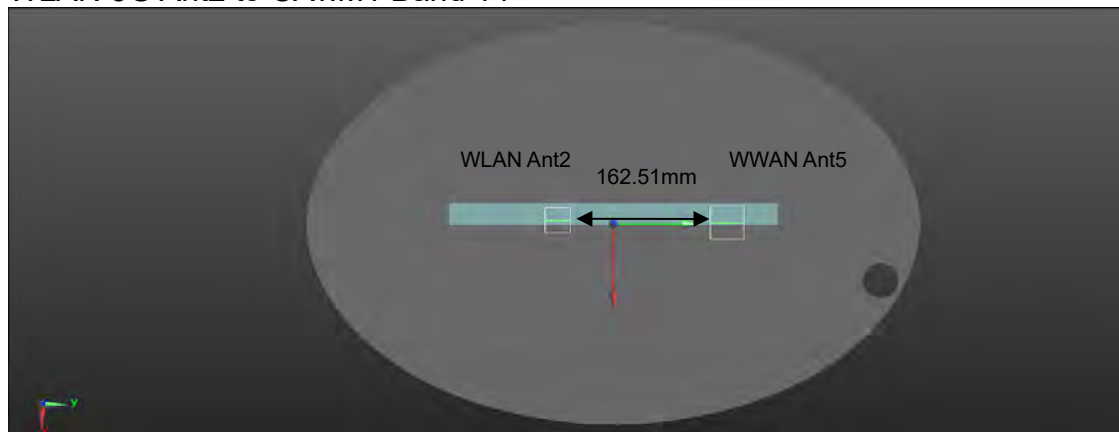
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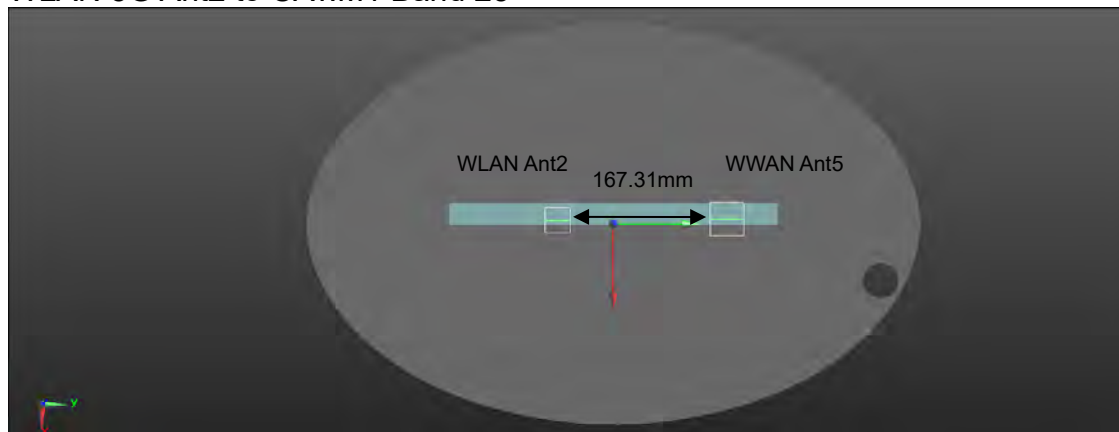
## WLAN 5G Ant2 to CAT.M1 Band 13



## WLAN 5G Ant2 to CAT.M1 Band 14



## WLAN 5G Ant2 to CAT.M1 Band 25



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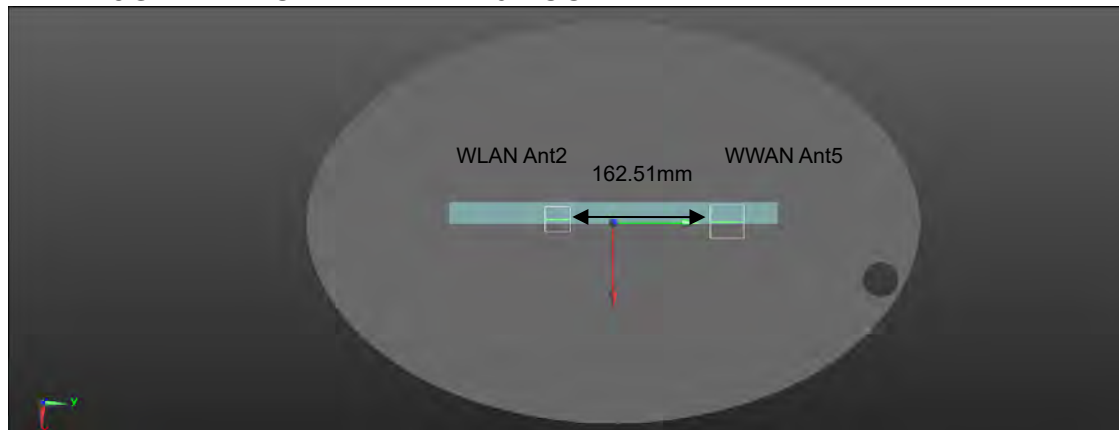
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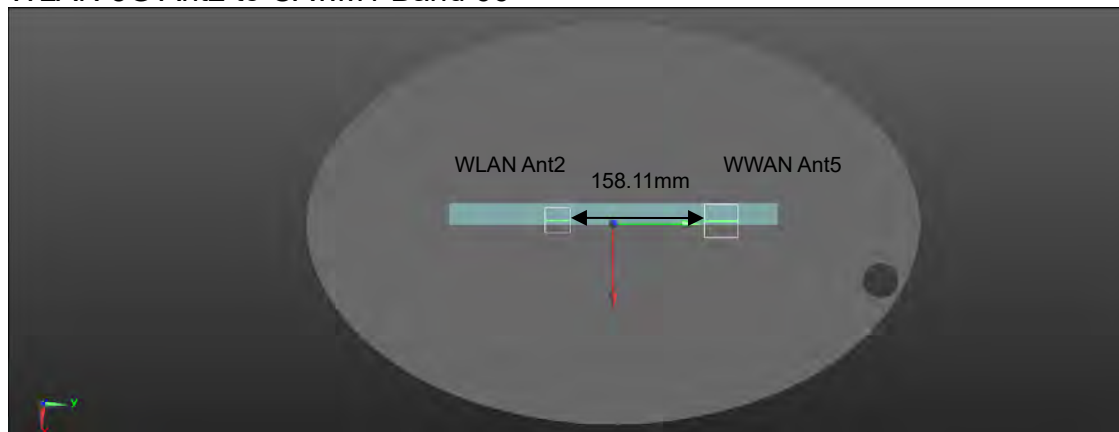
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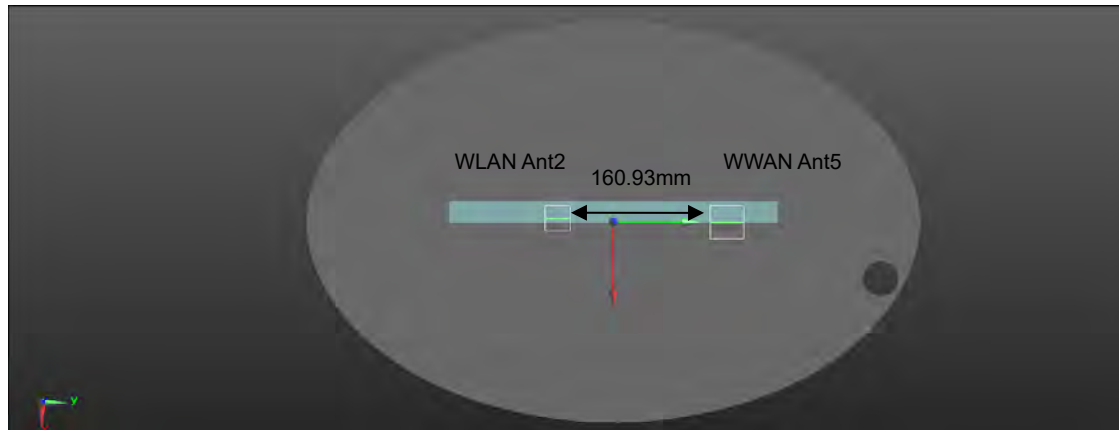
## WLAN 5G Ant2 to CAT.M1 Band 26 FCC



## WLAN 5G Ant2 to CAT.M1 Band 66



## WLAN 5G Ant2 to CAT.M1 Band 85



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| Scenario 3: |                    |                  |                  |        |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|--------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y      | z     |                     |  |       |                                    |
| Top edge    | WLAN 6G Ant1+BT    | 1.540            | -0.43            | -12.57 | -0.33 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.194            | -0.46            | 10.70  | -0.31 | 2.734               | 232.70                                 | 0.019 | SPLSR $\leq$ 0.04,<br>Not required |
|             | GPRS 1900          | 1.022            | -0.45            | 10.85  | -0.30 | 2.562               | 234.20                                 | 0.018 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 2      | 0.090            | -0.28            | 11.00  | -0.30 | 1.630               | 235.71                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 4      | 0.103            | -0.29            | 10.06  | -0.31 | 1.643               | 226.30                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 5      | 0.078            | -0.31            | 10.69  | -0.31 | 1.618               | 232.60                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 12     | 0.050            | -0.31            | 8.13   | -0.31 | 1.590               | 207.00                                 | 0.010 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 13     | 0.066            | -0.31            | 10.69  | -0.30 | 1.606               | 232.60                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 14     | 0.067            | -0.31            | 10.69  | -0.30 | 1.607               | 232.60                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 25     | 0.103            | -0.29            | 11.17  | -0.31 | 1.643               | 237.40                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 26_FCC | 0.081            | -0.31            | 10.69  | -0.31 | 1.621               | 232.60                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 66     | 0.125            | -0.30            | 10.25  | -0.30 | 1.665               | 228.20                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 85     | 0.260            | -0.16            | 10.53  | -0.31 | 1.800               | 231.02                                 | 0.010 | SPLSR $\leq$ 0.04,<br>Not required |

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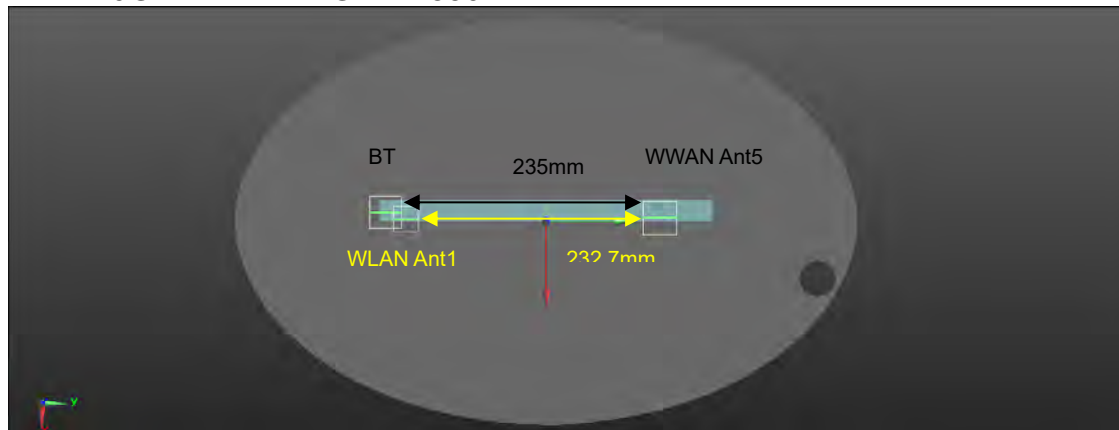
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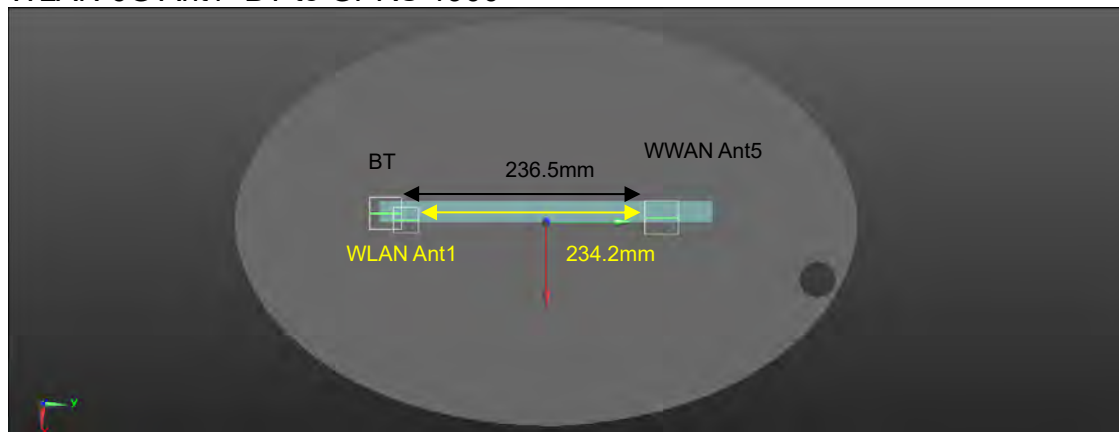
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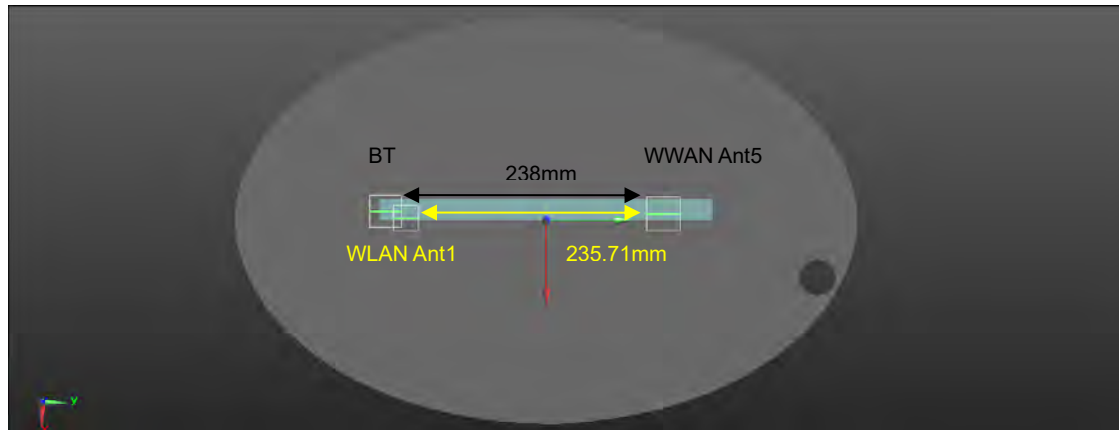
## WLAN 6G Ant1+BT to GPRS 850



## WLAN 6G Ant1+BT to GPRS 1900



## WLAN 6G Ant1+BT to CAT.M1 Band 2



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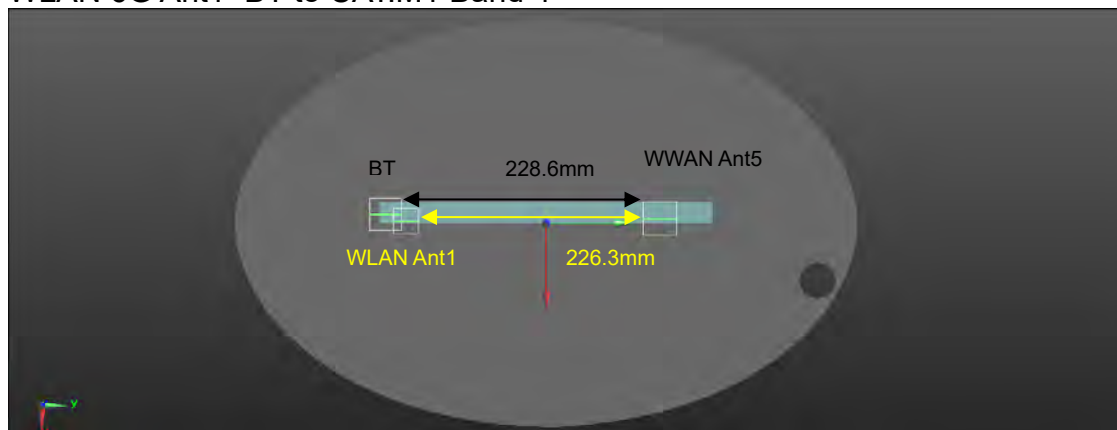
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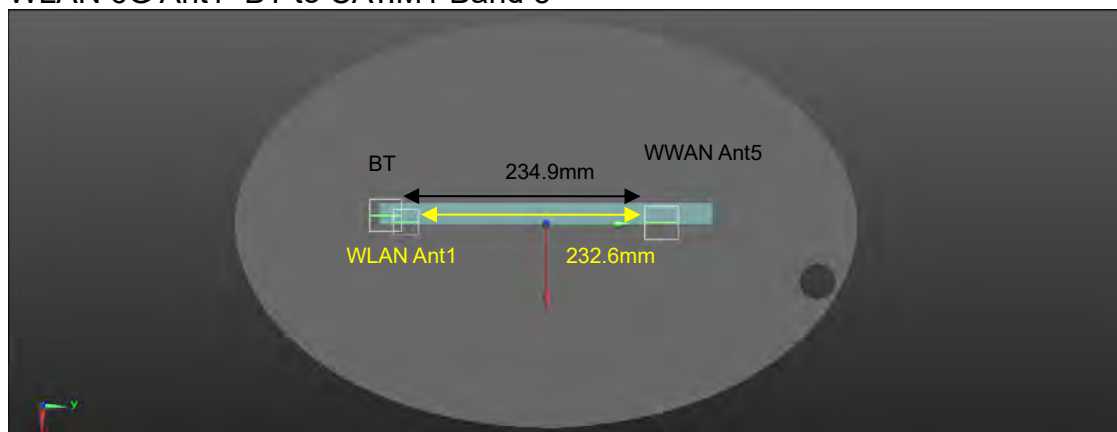
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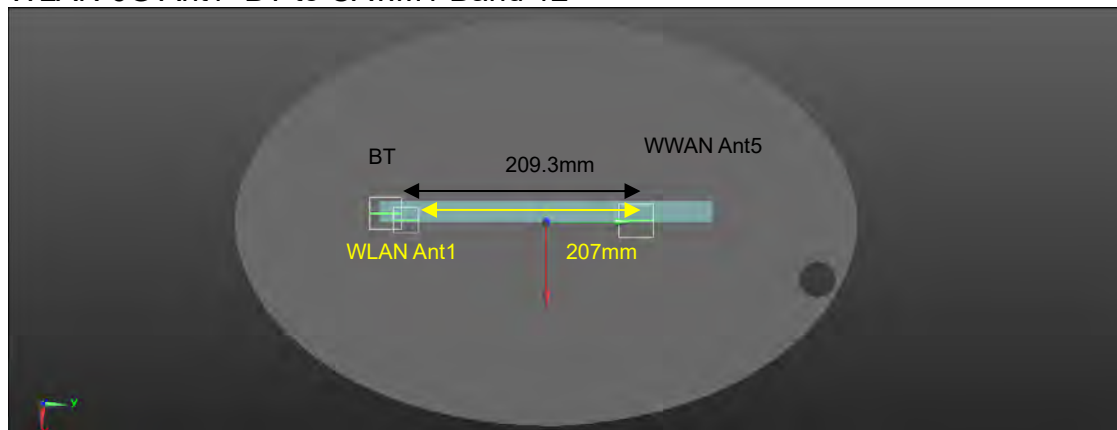
## WLAN 6G Ant1+BT to CAT.M1 Band 4



## WLAN 6G Ant1+BT to CAT.M1 Band 5



## WLAN 6G Ant1+BT to CAT.M1 Band 12



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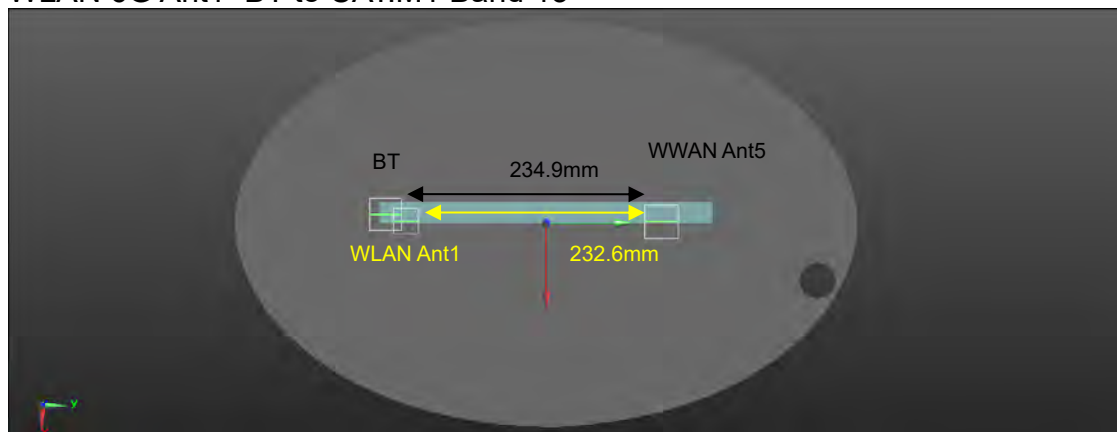
t (886-2) 2299-3279

f (886-2) 2298-0488

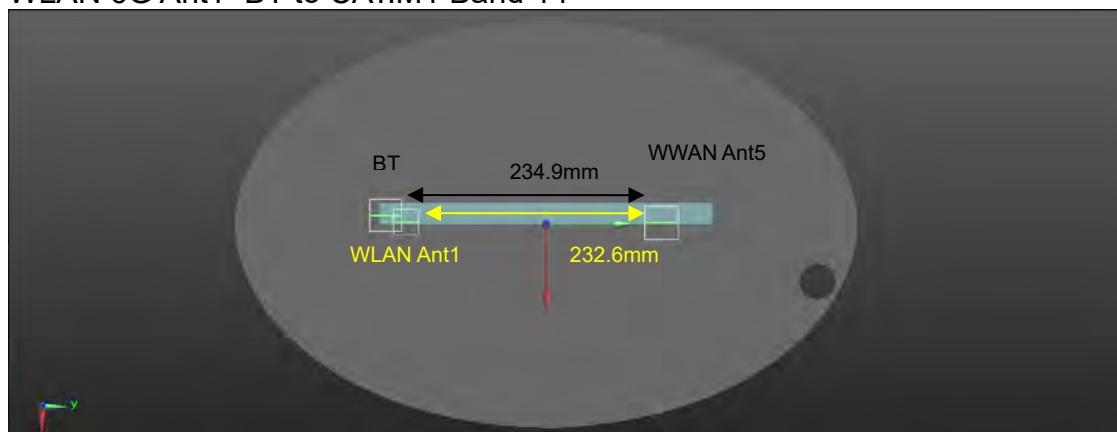
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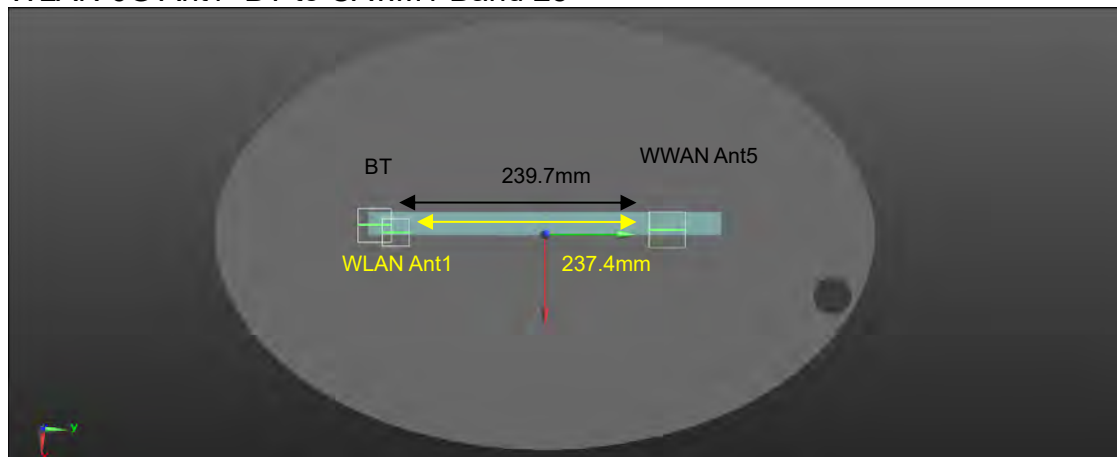
## WLAN 6G Ant1+BT to CAT.M1 Band 13



## WLAN 6G Ant1+BT to CAT.M1 Band 14



## WLAN 6G Ant1+BT to CAT.M1 Band 25



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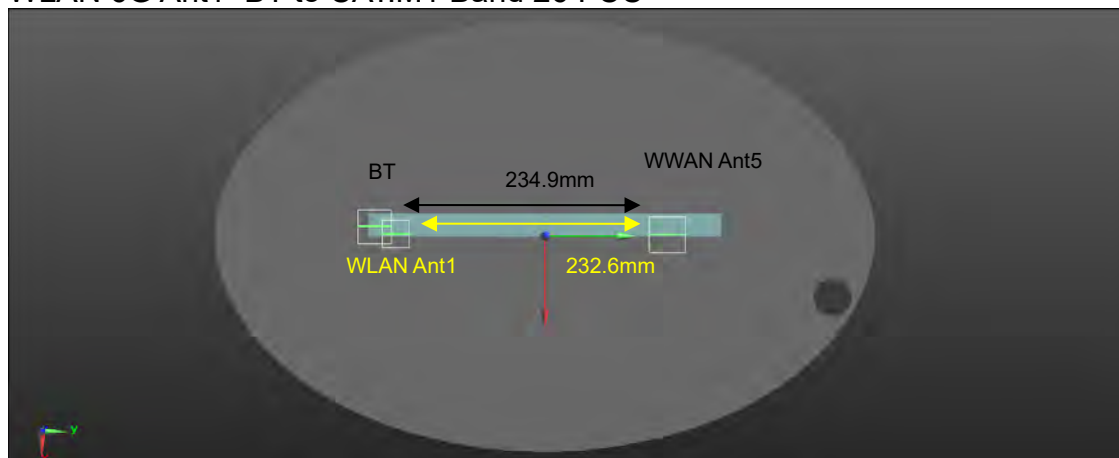
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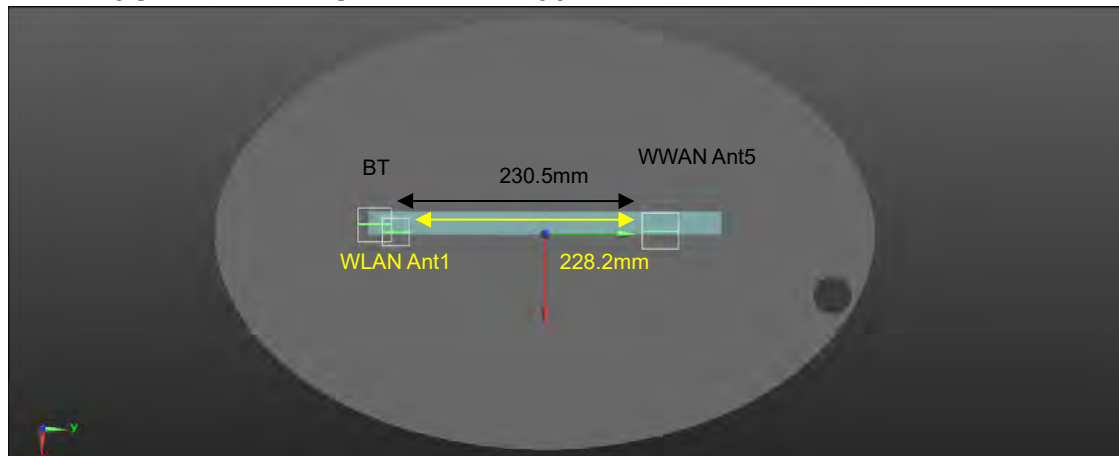
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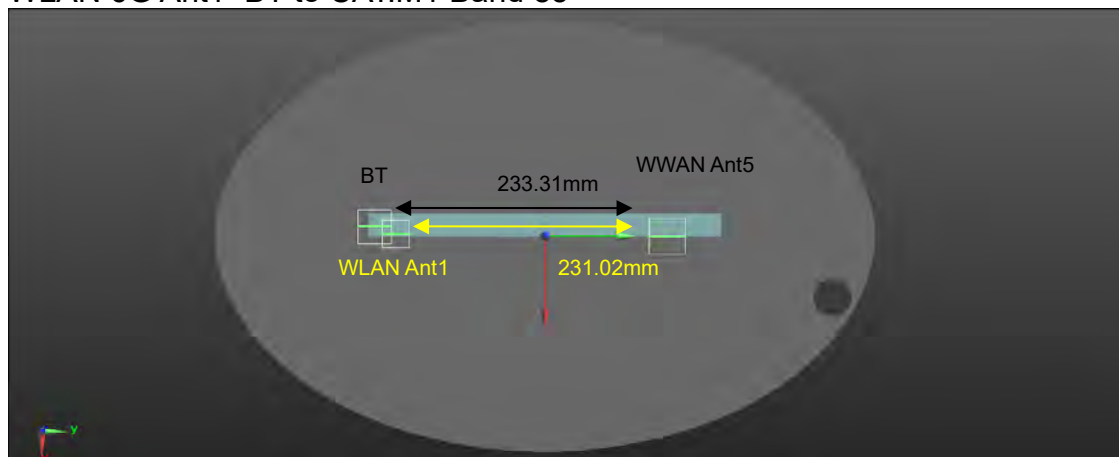
## WLAN 6G Ant1+BT to CAT.M1 Band 26 FCC



## WLAN 6G Ant1+BT to CAT.M1 Band 66



## WLAN 6G Ant1+BT to CAT.M1 Band 85



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| Scenario 3: |                    |                  |                  |       |       |                     |  |       |                                    |
|-------------|--------------------|------------------|------------------|-------|-------|---------------------|--|-------|------------------------------------|
| Position    | Conditions         | SAR Value (W/kg) | Coordinates (cm) |       |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|             |                    |                  | x                | y     | z     |                     |  |       |                                    |
| Top edge    | WLAN 6G Ant2       | 1.100            | -0.46            | -5.38 | -0.32 | -                   | -                                      | -     | -                                  |
|             | GPRS 850           | 1.194            | -0.46            | 10.70 | -0.31 | 2.294               | 160.80                                 | 0.022 | SPLSR $\leq$ 0.04,<br>Not required |
|             | GPRS 1900          | 1.022            | -0.45            | 10.85 | -0.30 | 2.122               | 162.30                                 | 0.019 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 2      | 0.090            | -0.28            | 11.00 | -0.30 | 1.190               | 163.81                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 4      | 0.103            | -0.29            | 10.06 | -0.31 | 1.203               | 154.41                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 5      | 0.078            | -0.31            | 10.69 | -0.31 | 1.178               | 160.71                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 12     | 0.050            | -0.31            | 8.13  | -0.31 | 1.150               | 135.11                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 13     | 0.066            | -0.31            | 10.69 | -0.30 | 1.166               | 160.71                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 14     | 0.067            | -0.31            | 10.69 | -0.30 | 1.167               | 160.71                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 25     | 0.103            | -0.29            | 11.17 | -0.31 | 1.203               | 165.51                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 26_FCC | 0.081            | -0.31            | 10.69 | -0.31 | 1.181               | 160.71                                 | 0.008 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 66     | 0.125            | -0.30            | 10.25 | -0.30 | 1.225               | 156.31                                 | 0.009 | SPLSR $\leq$ 0.04,<br>Not required |
|             | CAT.M1 Band 85     | 0.260            | -0.16            | 10.53 | -0.31 | 1.360               | 159.13                                 | 0.010 | SPLSR $\leq$ 0.04,<br>Not required |

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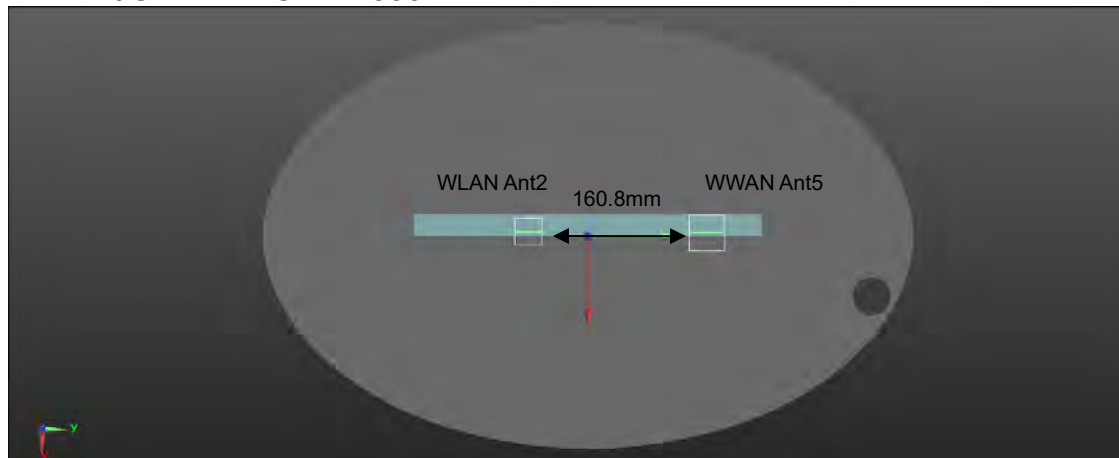
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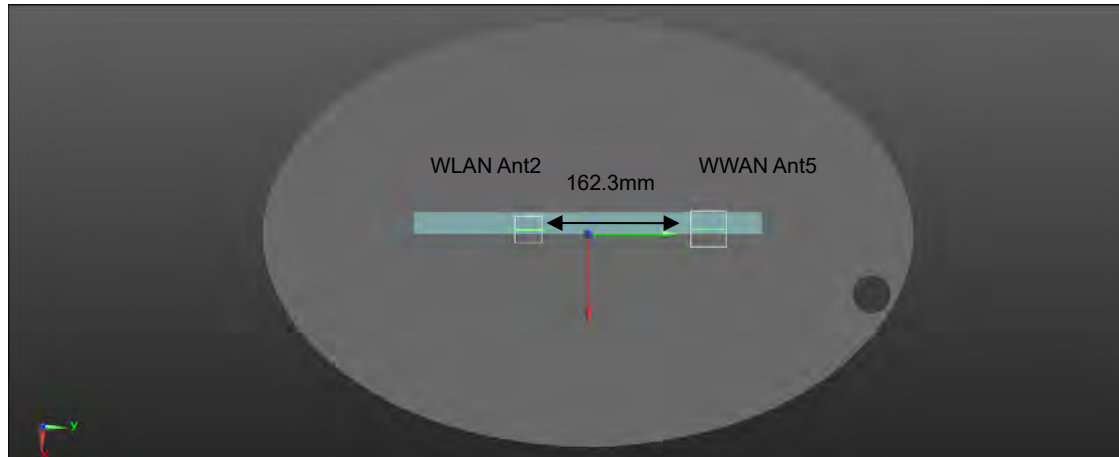
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## WLAN 6G Ant2 to GPRS 850



## WLAN 6G Ant2 to GPRS 1900



## WLAN 6G Ant2 to Cat.M1 Band2



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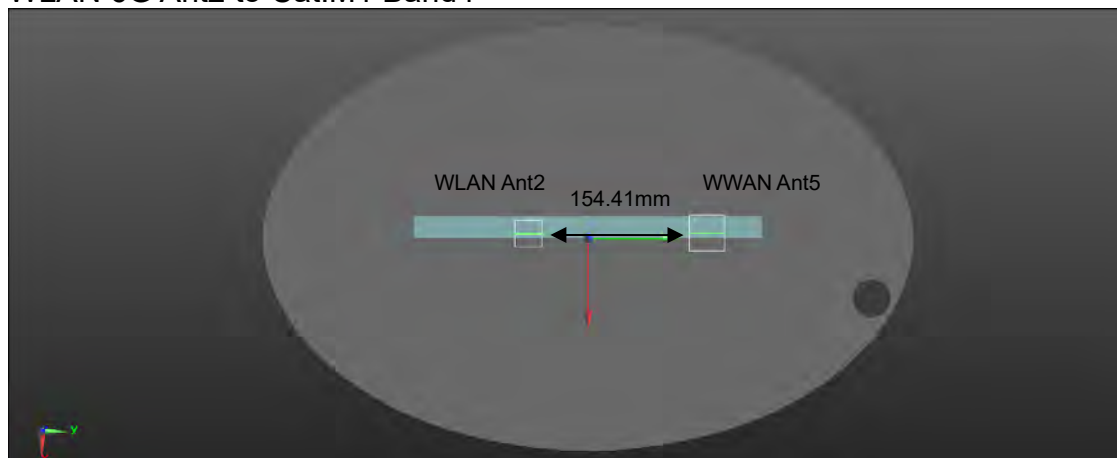
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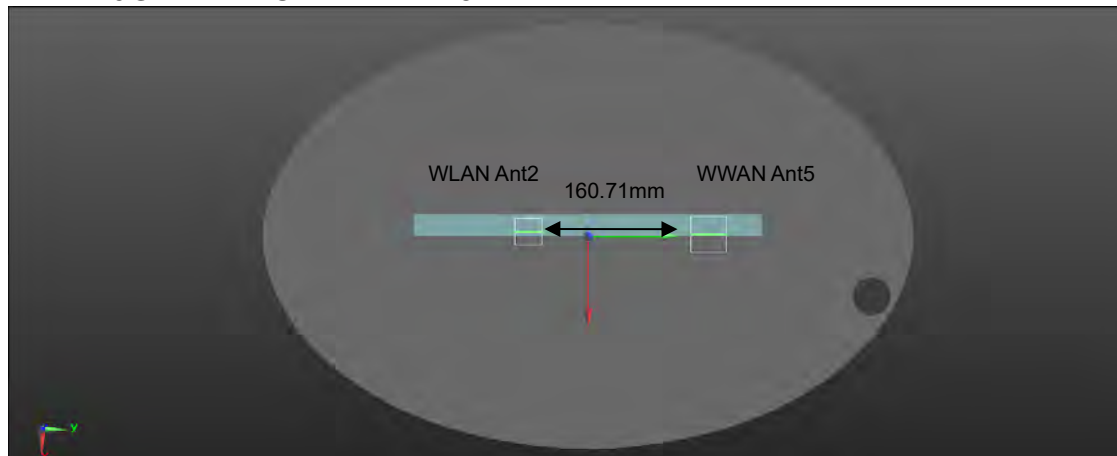
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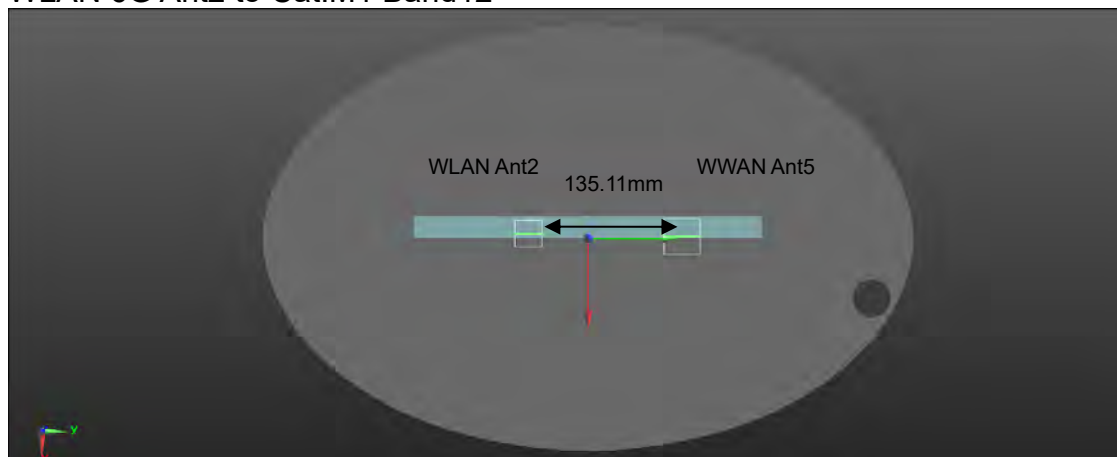
WLAN 6G Ant2 to Cat.M1 Band4



WLAN 6G Ant2 to Cat.M1 Band5



WLAN 6G Ant2 to Cat.M1 Band12



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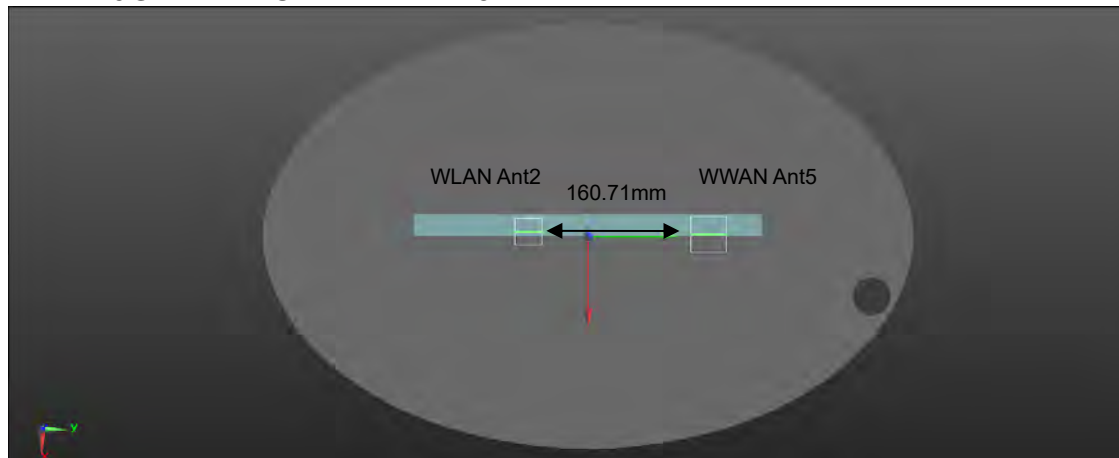
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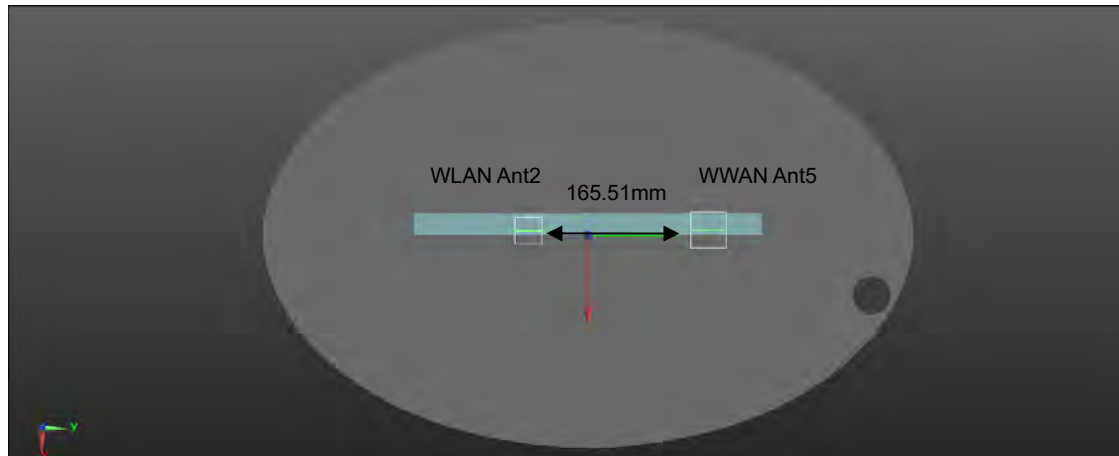
WLAN 6G Ant2 to Cat.M1 Band13



WLAN 6G Ant2 to Cat.M1 Band14



WLAN 6G Ant2 to Cat.M1 Band25



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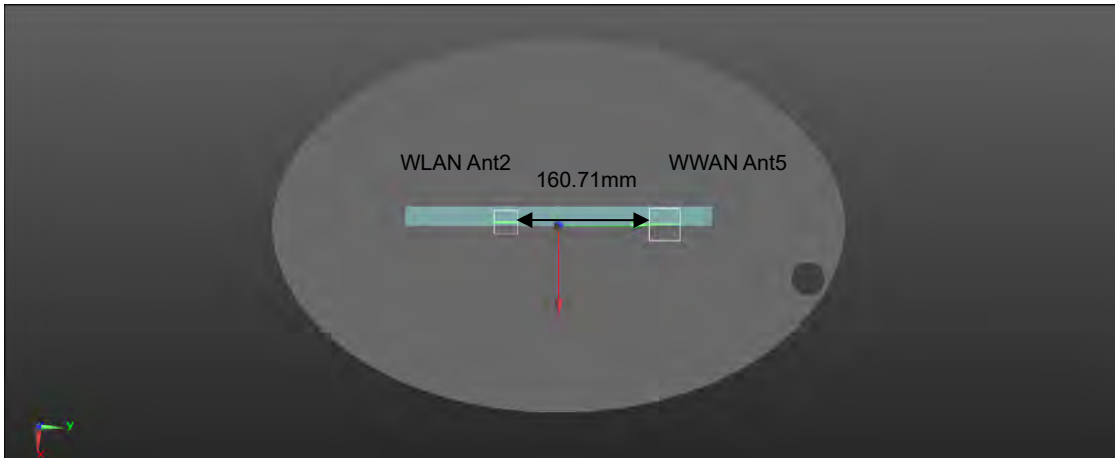
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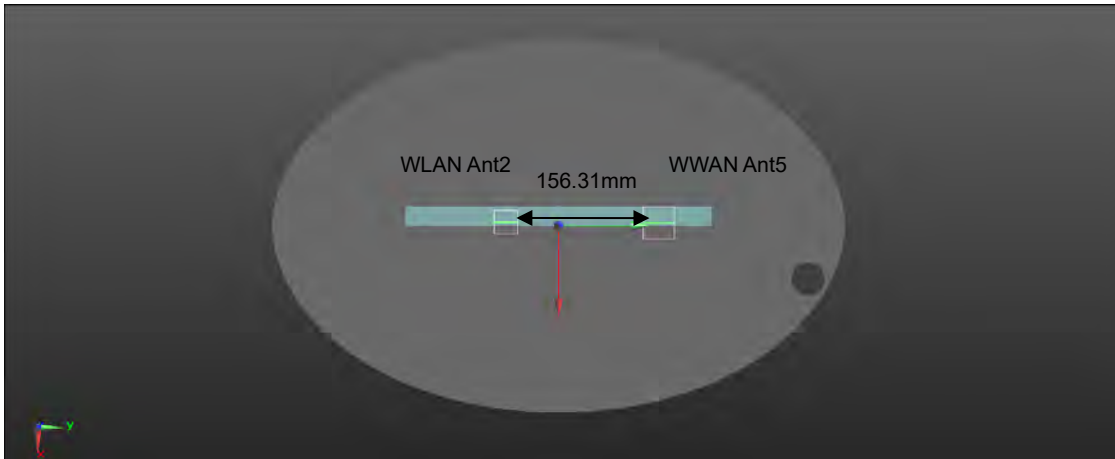
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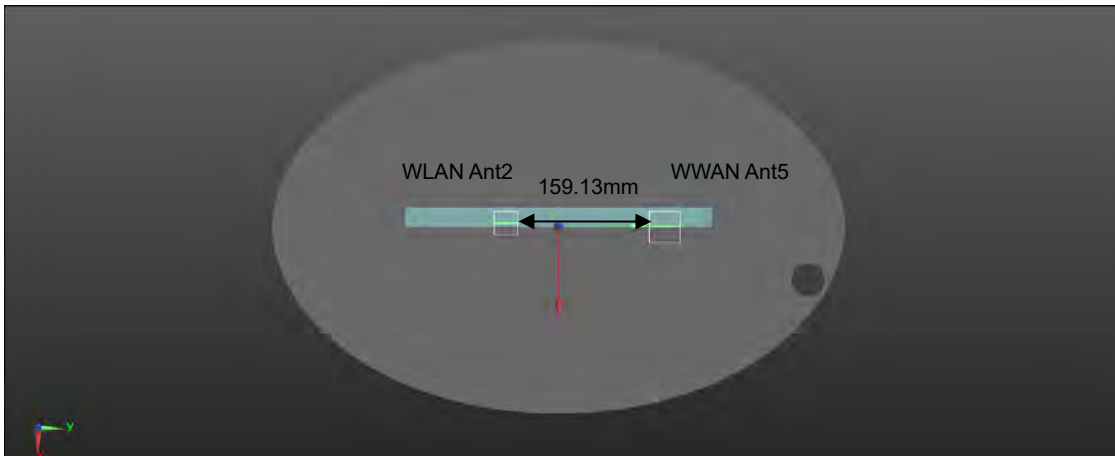
WLAN 6G Ant2 to Cat.M1 Band26 FCC



WLAN 6G Ant2 to Cat.M1 Band66



WLAN 6G Ant2 to Cat.M1 Band85



## 7.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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## 8 INSTRUMENTS LIST

| Equipment List |                              |                          |               |                          |                          |
|----------------|------------------------------|--------------------------|---------------|--------------------------|--------------------------|
| Manufacturer   | Device                       | Type                     | Serial number | Date of last calibration | Date of next calibration |
| SPEAG          | Data acquisition Electronics | DAE4                     | 1336          | Aug/22/2023              | Aug/21/2024              |
| SPEAG          | Dosimetric E-Field Probe     | EX3DV4                   | 7509          | Apr/26/2023              | Apr/25/2024              |
| SPEAG          | System Validation Dipole     | D750V3                   | 1015          | Sep/18/2023              | Sep/17/2024              |
| SPEAG          | System Validation Dipole     | D835V2                   | 4d063         | Sep/20/2023              | Sep/19/2024              |
| SPEAG          | System Validation Dipole     | D1750V2                  | 1008          | Sep/19/2023              | Sep/18/2024              |
| SPEAG          | System Validation Dipole     | D1900V2                  | 5d056         | Aug/25/2023              | Aug/24/2024              |
| SPEAG          | Dielectric Assessment Kit    | DAKS-3.5                 | 1053          | Feb/27/2023              | Feb/26/2024              |
| R&S            | MXG Analog Signal Generator  | SMB100A03                | 182012        | May/23/2023              | May/22/2024              |
| Agilent        | Dual-directional coupler     | 772D                     | MY46151258    | Sep/26/2023              | Sep/25/2024              |
| Agilent        | Dual-directional coupler     | 778D                     | MY46151242    | Sep/26/2023              | Sep/25/2024              |
| EMCI           | Amplifier                    | EMC 074225P              | 980155        | Calibration not required | Calibration not required |
| R&S            | Power Sensor                 | NRP18S                   | 101973        | Feb/06/2023              | Feb/05/2024              |
| R&S            | Power Meter                  | NRX                      | 102191        | Feb/06/2023              | Feb/05/2024              |
| R&S            | Power Sensor                 | NRP50S                   | 101358        | Feb/06/2023              | Feb/05/2024              |
| SPEAG          | Software                     | DASY 52<br>V52.10.4.1527 | N/A           | Calibration not required | Calibration not required |
| SPEAG          | Phantom                      | ELI                      | N/A           | Calibration not required | Calibration not required |
| Anritsu        | Radio Communication Test     | MT8821C                  | 6262044732    | Nov/16/2023              | Nov/15/2024              |
| TECPEL         | Digital thermometer          | DTM-303A                 | TP131515      | Jun/02/2023              | Jun/01/2024              |

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## 9 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

| A   | c                         | D                          | e          |           | f       | g        | h=c * f / e             | i=c * g / e             | k           |
|---|---------------------------|----------------------------|------------|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty                               | Tolerance/<br>Uncertainty | Probability<br>Distributio | Div        | Div Value | ci (1g) | ci (10g) | Standard<br>uncertainty | Standard<br>uncertainty | vi, or Veff |
| <b>Measurement system</b>                           |                           |                            |            |           |         |          |                         |                         |             |
| Probe calibration                                   | 6.00%                     | N                          | 1          | 1         | 1       | 1        | 6.00%                   | 6.00%                   | ∞           |
| <i>Isotropy , Axial</i>                             | 3.50%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.02%                   | 2.02%                   | ∞           |
| <i>Isotropy, Hemispherical</i>                      | 9.60%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 5.54%                   | 5.54%                   | ∞           |
| Modulation Response                                 | 2.40%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.40%                   | 1.40%                   | ∞           |
| Boundary Effect                                     | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Linearity   | 4.70%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.71%                   | 2.71%                   | ∞           |
| Detection Limits                                    | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Readout Electronics                                 | 0.30%                     | N                          | 1          | 1         | 1       | 1        | 0.30%                   | 0.30%                   | ∞           |
| Response time                                       | 0.80%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.46%                   | 0.46%                   | ∞           |
| Integration Time                                    | 2.60%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.50%                   | 1.50%                   | ∞           |
| <b>Measurement drift<br/>(class A evaluation)</b>   | 1.75%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.01%                   | 1.01%                   | ∞           |
| RF ambient condition -<br>noise                     | 3.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | ∞           |
| RF ambient conditions -<br>reflections              | 3.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | ∞           |
| Probe positioner<br>Mechanical restrictions         | 0.40%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.23%                   | 0.23%                   | ∞           |
| Probe Positioning with<br>respect to phantom shell  | 2.90%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.67%                   | 1.67%                   | ∞           |
| Post-processing                                     | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Max SAR Eval  | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| <b>Test Sample related</b>                          |                           |                            |            |           |         |          |                         |                         |             |
| Test sample positioning                             | 2.90%                     | N                          | 1          | 1         | 1       | 1        | 2.90%                   | 2.90%                   | M-1         |
| Device Holder Uncertainty                           | 3.60%                     | N                          | 1          | 1         | 1       | 1        | 3.60%                   | 3.60%                   | M-1         |
| Drift of output power                               | 5.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.89%                   | 2.89%                   | ∞           |
| <b>Phantom and Setup</b>                            |                           |                            |            |           |         |          |                         |                         |             |
| Phantom Uncertainty                                 | 4.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.31%                   | 2.31%                   | ∞           |
| Liquid permittivity (mea.)                          | 3.93%                     | N                          | 1          | 1         | 0.64    | 0.43     | 2.52%                   | 1.69%                   | M           |
| Liquid Conductivity (mea.)                          | 4.76%                     | N                          | 1          | 1         | 0.6     | 0.49     | 2.86%                   | 2.33%                   | M           |
| Combined standard<br>uncertainty                    |                           | RSS                        |            |           |         |          | 12.04%                  | 11.77%                  |             |
| Expan uncertainty (95%<br>confidence interval), K=2 |                           |                            |            |           |         |          | 24.07%                  | 23.53%                  |             |

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## 10 SAR MEASUREMENT RESULTS

Date: 2023/12/7

ID: 001

Report No.: TESA2311000704EN

**GPRS850(1Dn4Up)\_Body\_Top Edge\_CH 251\_0mm**

Communication System: GPRS(1Dn4Up); Frequency: 848.8 MHz; Duty cycle= 1:2

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.911$  S/m;  $\epsilon_r = 40.512$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 848.8 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

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

Reference Value = 14.18 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.513 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.7%

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

**Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.18 V/m; Power Drift = 0.13 dB

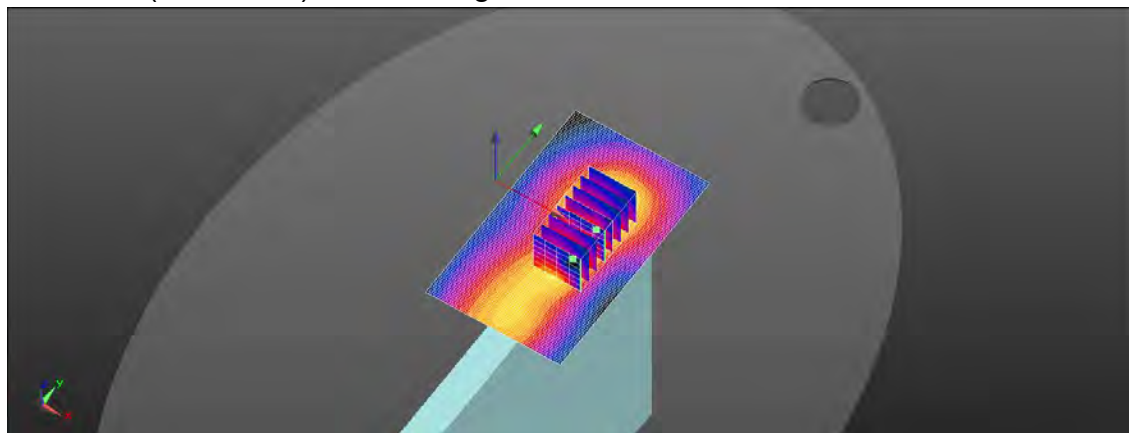
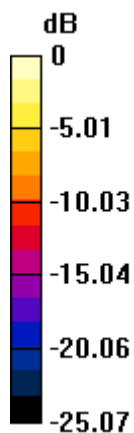
Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.799 W/kg; SAR(10 g) = 0.467 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

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



0 dB = 1.05 W/kg = 0.19 dBW/kg

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Date: 2023/12/10

ID: 002

Report No. :TESA2311000704EN

GPRS1900(1Dn4Up)\_Body\_Top Edge\_CH 661\_0mm

Communication System: GPRS(1Dn4Up); Frequency: 1880 MHz; Duty cycle= 1:2

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.422$  S/m;  $\epsilon_r = 38.469$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1880 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 5.413 V/m; Power Drift = 0.18 dB

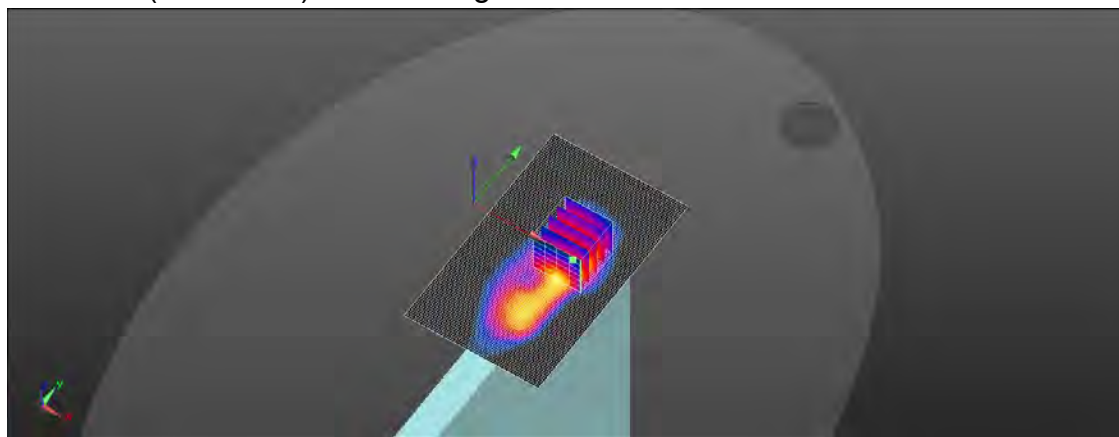
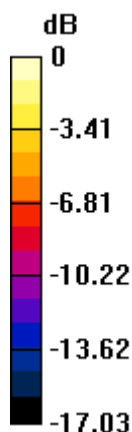
Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.891 W/kg; SAR(10 g) = 0.563 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 2023/12/10

ID: 003

Report No. :TESA2311000704EN

CAT.M1 Band 2 (5MHz)\_Body\_Top Edge\_CH 18900\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1880 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.422$  S/m;  $\epsilon_r = 38.469$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1880 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.207 W/kg

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

Reference Value = 3.927 V/m; Power Drift = 0.10 dB

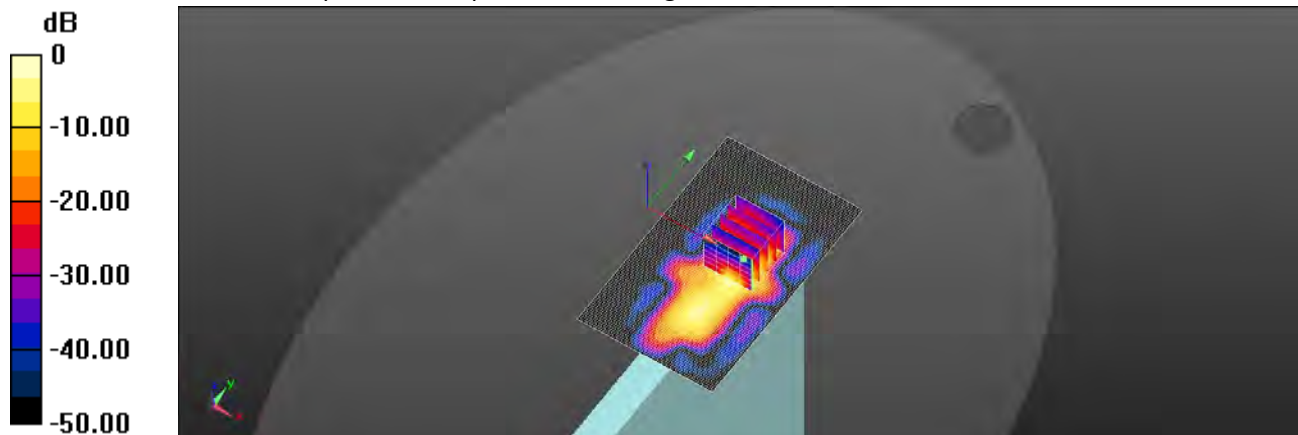
Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.036 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.102 W/kg



0 dB = 0.207 W/kg = -6.84 dBW/kg

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Date: 2023/12/9

ID: 004

Report No. :TESA2311000704EN

CAT.M1 Band 4 (5MHz)\_Body\_Top Edge\_CH 20375\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1752.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1752.5$  MHz;  $\sigma = 1.32$  S/m;  $\epsilon_r = 38.656$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.6, 8.56, 9.12) @ 1752.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.143 W/kg

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

Reference Value = 3.363 V/m; Power Drift = 0.14 dB

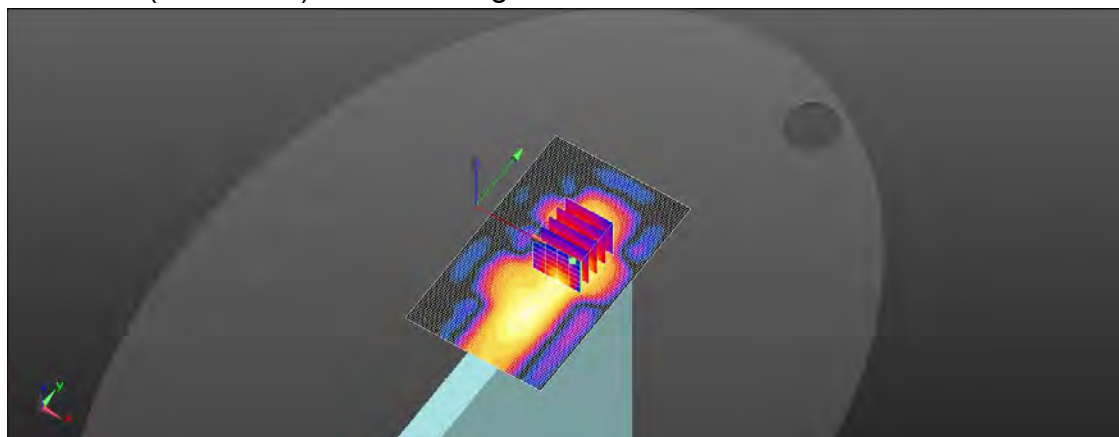
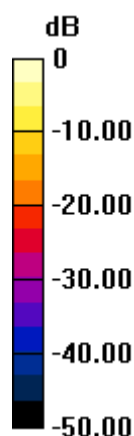
Peak SAR (extrapolated) = 0.157 W/kg

**SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.036 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 44.4%

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.143 W/kg = -8.45 dBW/kg

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Date: 2023/12/7

ID: 005

Report No. :TESA2311000704EN

CAT.M1 Band 5 (5MHz)\_Body\_Top Edge\_CH 20525\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 836.5$  MHz;  $\sigma = 0.896$  S/m;  $\epsilon_r = 40.558$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 836.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0618 W/kg

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

Reference Value = 3.415 V/m; Power Drift = 0.15 dB

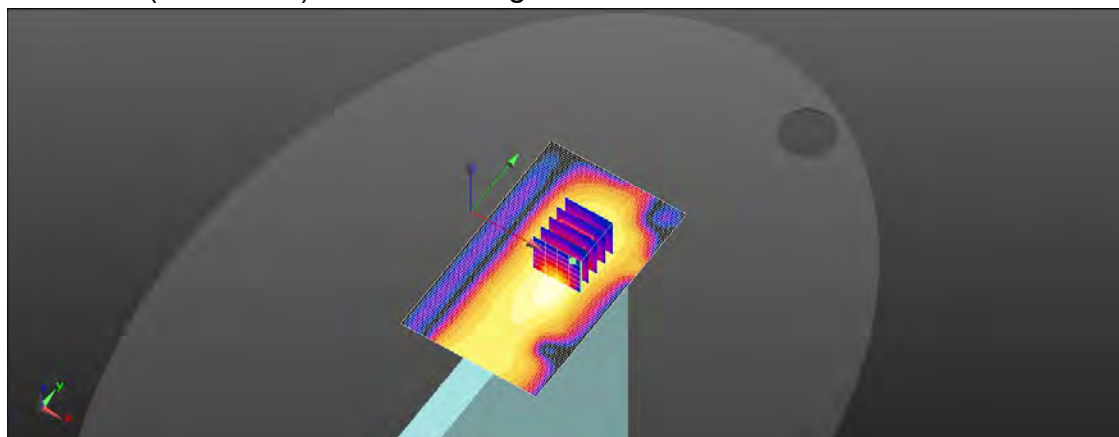
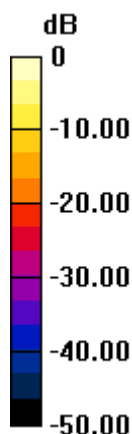
Peak SAR (extrapolated) = 0.103 W/kg

**SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.025 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 0.0779 W/kg



0 dB = 0.0618 W/kg = -12.09 dBW/kg

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Date: 2023/12/5

ID: 006

Report No. :TESA2311000704EN

CAT.M1 Band 12 (5MHz)\_Body\_Top Edge\_CH 23095\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 707.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 708 \text{ MHz}$ ;  $\sigma = 0.873 \text{ S/m}$ ;  $\epsilon_r = 43.631$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 707.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.0516 W/kg

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

Reference Value = 3.919 V/m; Power Drift = 0.16 dB

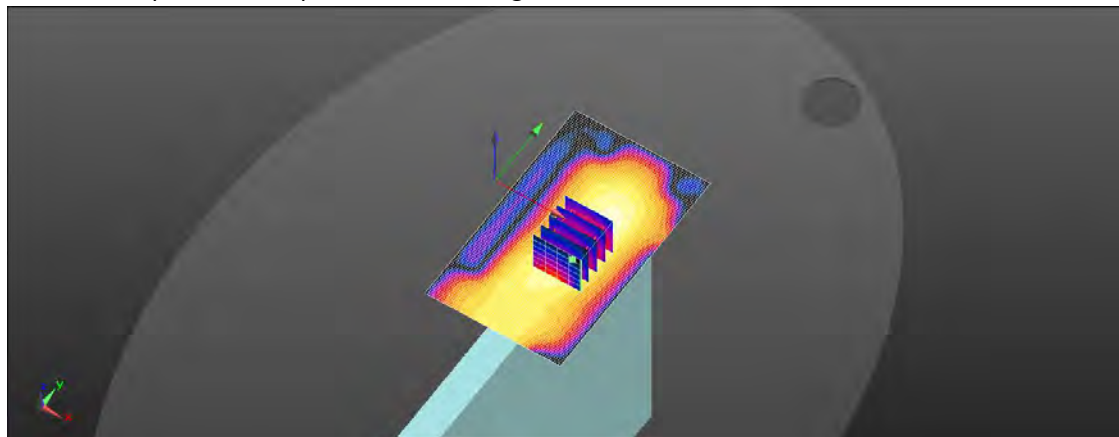
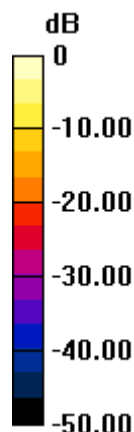
Peak SAR (extrapolated) = 0.106 W/kg

**SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.019 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 36.2%

Maximum value of SAR (measured) = 0.0675 W/kg



0 dB = 0.0516 W/kg = -12.87 dBW/kg

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Date: 2023/12/5

ID: 007

Report No. :TESA2311000704EN

CAT.M1 Band 13 (5MHz)\_Body\_Top Edge\_CH 23255\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 784.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 784.5$  MHz;  $\sigma = 0.918$  S/m;  $\epsilon_r = 43.189$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 784.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0689 W/kg

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

Reference Value = 3.957 V/m; Power Drift = 0.18 dB

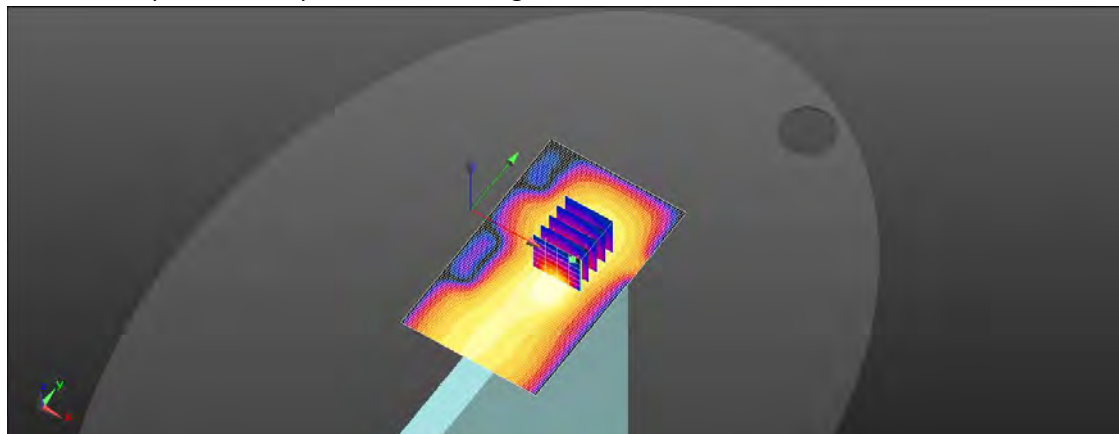
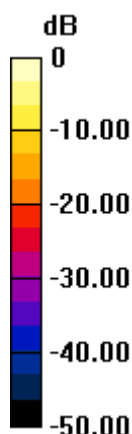
Peak SAR (extrapolated) = 0.116 W/kg

**SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.027 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 0.0867 W/kg



0 dB = 0.0689 W/kg = -11.62 dBW/kg

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Date: 2023/12/5

ID: 008

Report No. :TESA2311000704EN

CAT.M1 Band 14 (5MHz)\_Body\_Top Edge\_CH 23305\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 790.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 790.5 \text{ MHz}$ ;  $\sigma = 0.92 \text{ S/m}$ ;  $\epsilon_r = 43.154$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 790.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0598 W/kg

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

Reference Value = 3.816 V/m; Power Drift = 0.19 dB

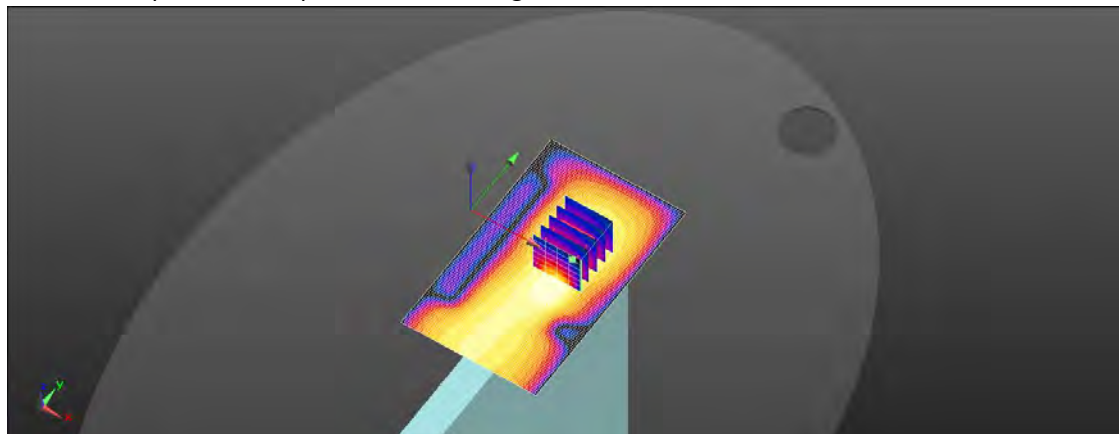
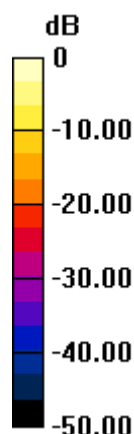
Peak SAR (extrapolated) = 0.103 W/kg

**SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.023 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 44.3%

Maximum value of SAR (measured) = 0.0768 W/kg



0 dB = 0.0598 W/kg = -12.23 dBW/kg

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Date: 2023/12/10

ID: 009

Report No. :TESA2311000704EN

CAT.M1 Band 25 (5MHz)\_Body\_Top Edge\_CH 26665\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1912.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1912.5$  MHz;  $\sigma = 1.444$  S/m;  $\epsilon_r = 38.449$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1912.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.218 W/kg

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

Reference Value = 3.547 V/m; Power Drift = 0.10 dB

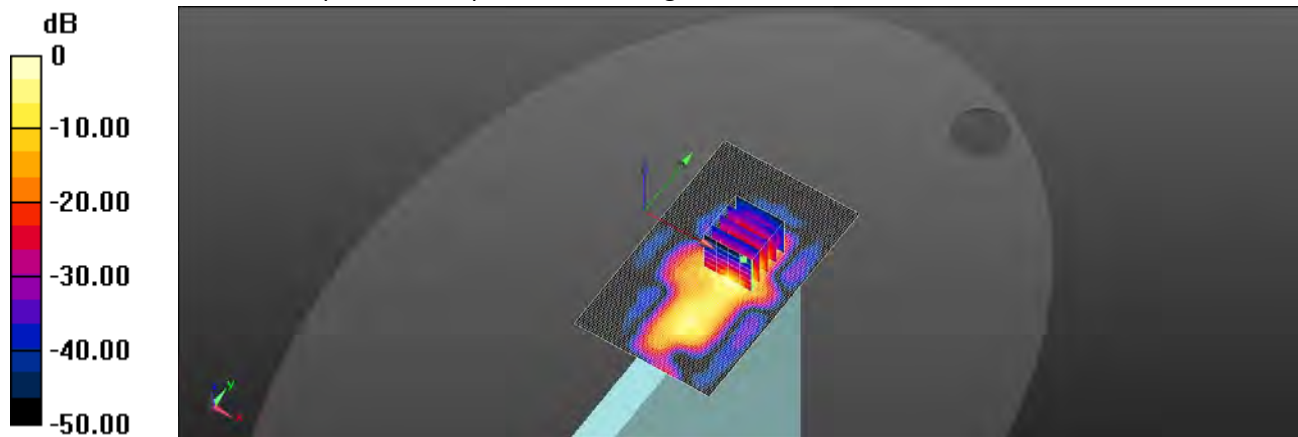
Peak SAR (extrapolated) = 0.162 W/kg

**SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.045 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 0.125 W/kg



0 dB = 0.218 W/kg = -6.62 dBW/kg

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Date: 2023/12/7

ID: 010

Report No. :TESA2311000704EN

CAT.M1 Band 26 (5MHz)\_Body\_Top Edge\_CH 26865\_QPSK\_1-0\_Index 0\_0mm\_FCC

Communication System: LTE; Frequency: 831.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 831.5$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 40.615$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 831.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0616 W/kg

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

Reference Value = 3.447 V/m; Power Drift = 0.18 dB

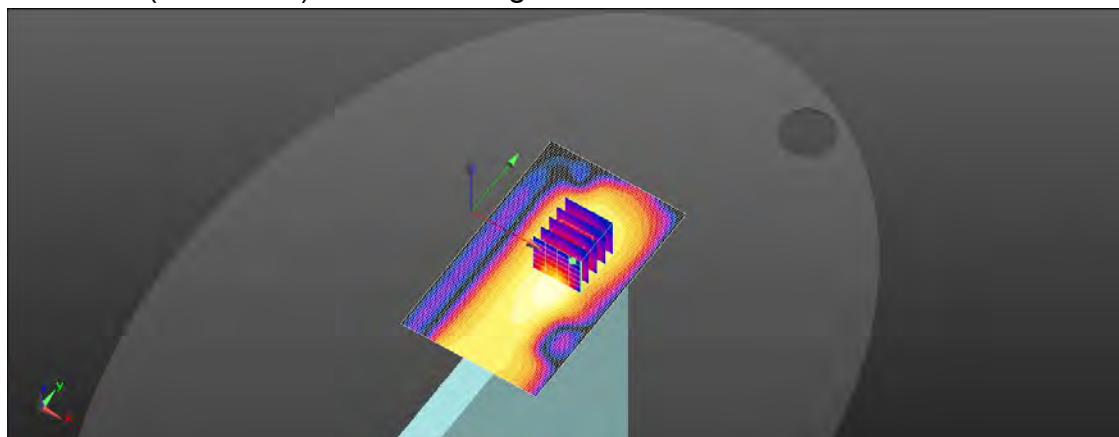
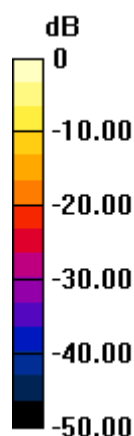
Peak SAR (extrapolated) = 0.105 W/kg

**SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.025 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 46%

Maximum value of SAR (measured) = 0.0782 W/kg



0 dB = 0.0616 W/kg = -12.10 dBW/kg

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Date: 2023/12/9

ID: 012

Report No. :TESA2311000704EN

CAT.M1 Band 66 (5MHz)\_Body\_Top Edge\_CH 132647\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1777.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1777.5$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 38.604$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.6, 8.56, 9.12) @ 1777.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.147 W/kg

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

Reference Value = 3.573 V/m; Power Drift = 0.13 dB

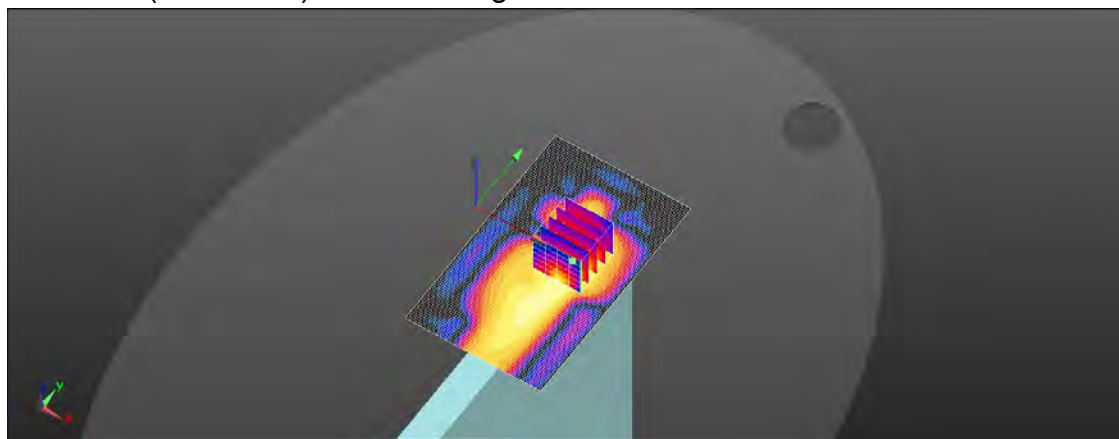
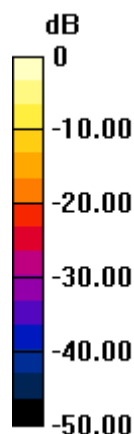
Peak SAR (extrapolated) = 0.191 W/kg

**SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.045 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 44.4%

Maximum value of SAR (measured) = 0.161 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

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Date: 2023/12/5

ID: 013

Report No.: TESA2311000704EN

CAT.M1 Band 85 (5MHz)\_Body\_Top Edge\_CH 134092\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 707 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 707 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 43.675$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 707 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.241 W/kg

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

Reference Value = 5.085 V/m; Power Drift = 0.14 dB

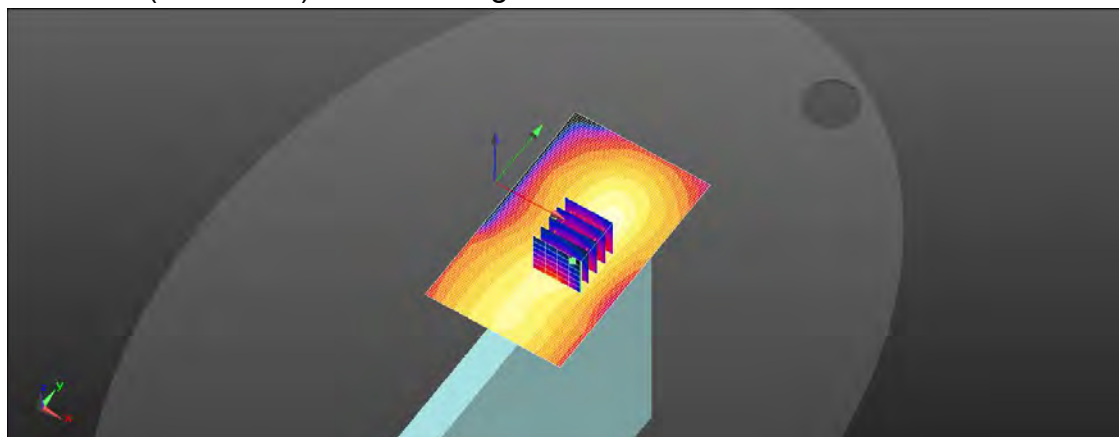
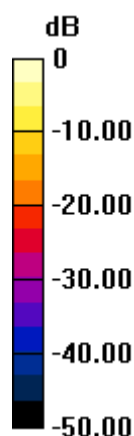
Peak SAR (extrapolated) = 0.469 W/kg

**SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.093 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 39%

Maximum value of SAR (measured) = 0.315 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

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Date: 2023/12/8

ID: 014

Report No. :TESA2311000704EN

GPRS850(1Dn4Up)\_Body\_Top Edge\_CH 251\_0mm

Communication System: GPRS(1Dn4Up); Frequency: 848.8 MHz; Duty cycle= 1:2

Medium parameters used:  $f = 849 \text{ MHz}$ ;  $\sigma = 0.908 \text{ S/m}$ ;  $\epsilon_r = 40.181$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 848.8 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

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

Reference Value = 21.47 V/m; Power Drift = 0.15 dB

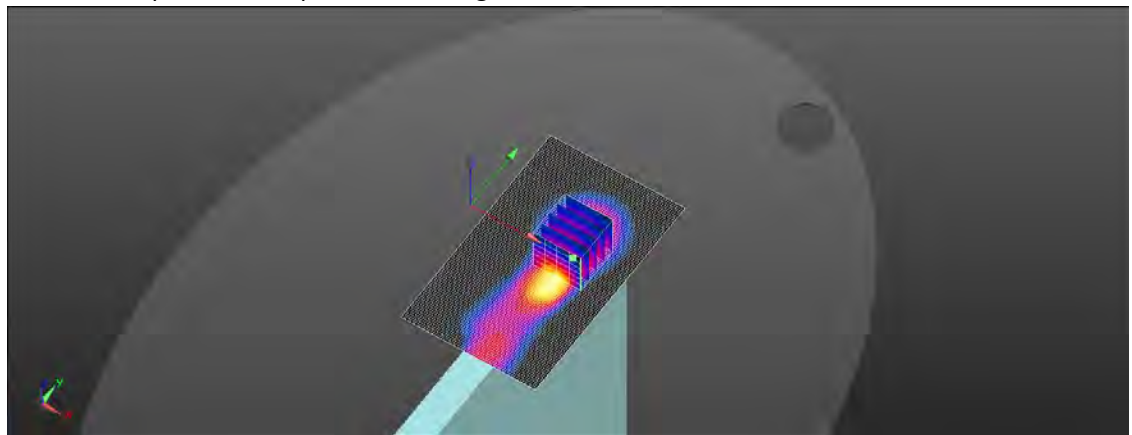
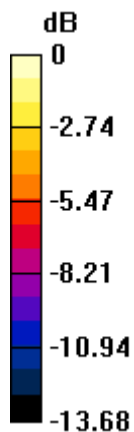
Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1 W/kg; SAR(10 g) = 0.574 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

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



0 dB = 1.37 W/kg = 1.37 dBW/kg

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Date: 2023/12/10

ID: 015

Report No.: TESA2311000704EN

GPRS1900(1Dn4Up)\_Body\_Top Edge\_CH 661\_0mm

Communication System: GPRS(1Dn4Up); Frequency: 1880 MHz; Duty cycle= 1:2

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.422$  S/m;  $\epsilon_r = 38.469$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1880 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

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

Reference Value = 4.642 V/m; Power Drift = 0.10 dB

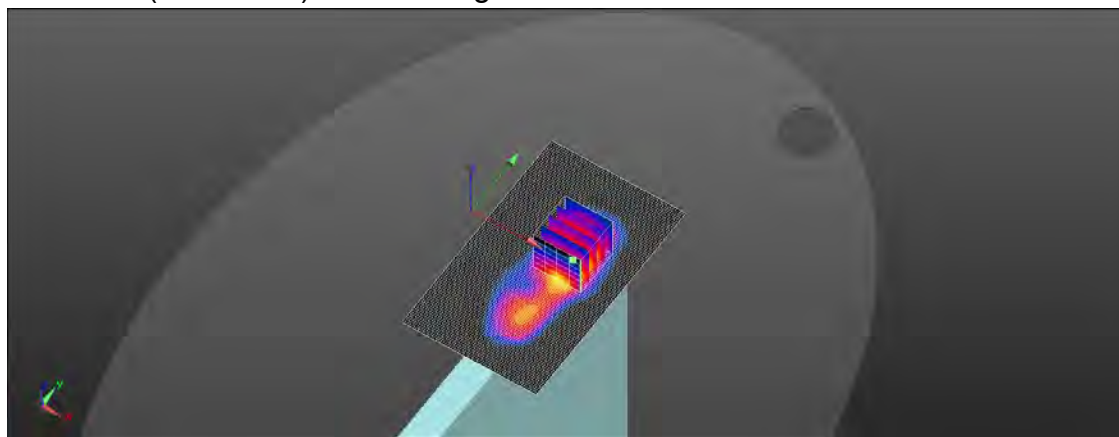
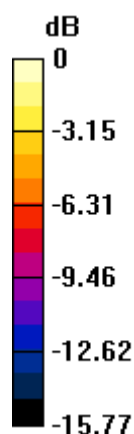
Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.969 W/kg; SAR(10 g) = 0.639 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2023/12/10

ID: 016

Report No.: TESA2311000704EN

CAT.M1 Band 2 (5MHz)\_Body\_Top Edge\_CH 18900\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1880 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.422 \text{ S/m}$ ;  $\epsilon_r = 38.469$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1880 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.191 W/kg

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

Reference Value = 3.829 V/m; Power Drift = 0.03 dB

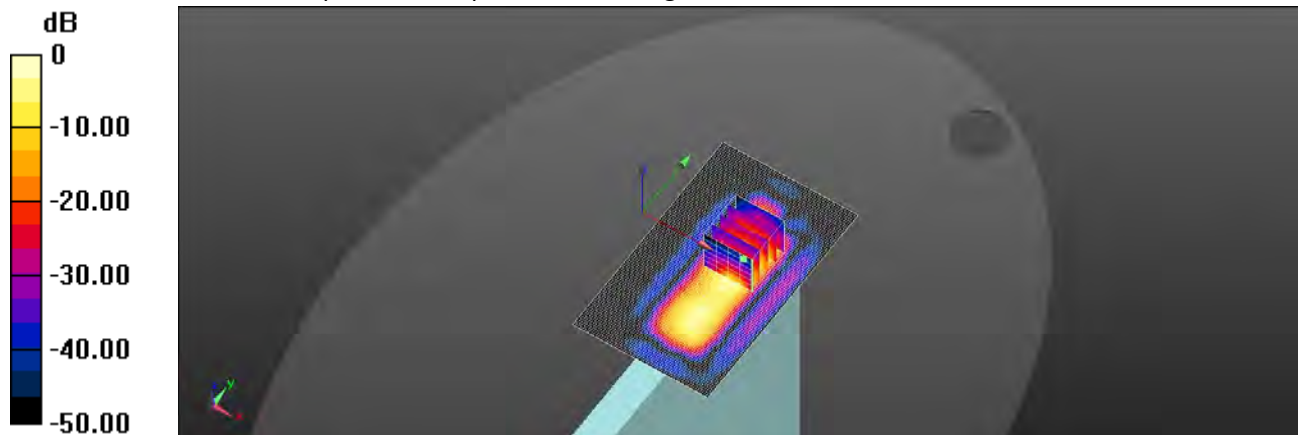
Peak SAR (extrapolated) = 0.139 W/kg

**SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.042 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 61.3%

Maximum value of SAR (measured) = 0.105 W/kg



0 dB = 0.191 W/kg = -7.19 dBW/kg

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Date: 2023/12/9

ID: 017

Report No. :TESA2311000704EN

CAT.M1 Band 4 (5MHz)\_Body\_Top Edge\_CH 19975\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1712.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1712.5$  MHz;  $\sigma = 1.29$  S/m;  $\epsilon_r = 38.723$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.6, 8.56, 9.12) @ 1712.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.194 W/kg

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

Reference Value = 4.128 V/m; Power Drift = 0.12 dB

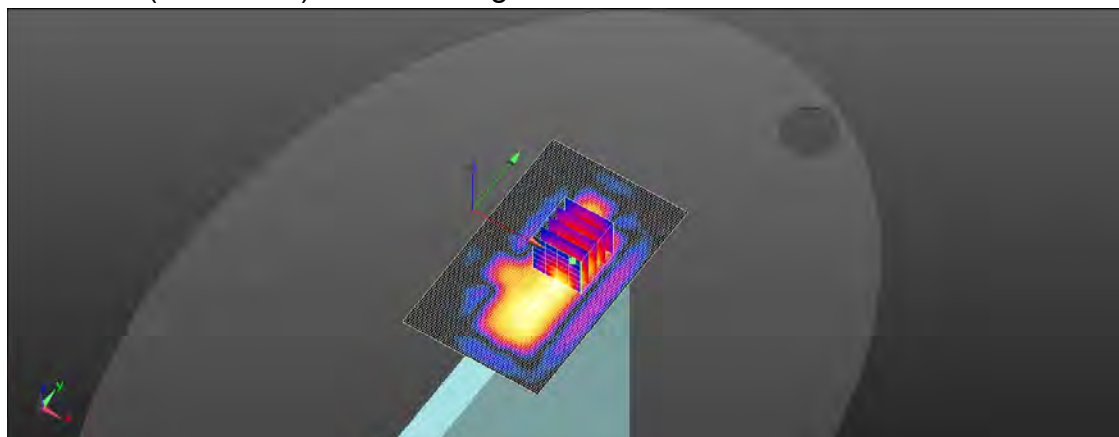
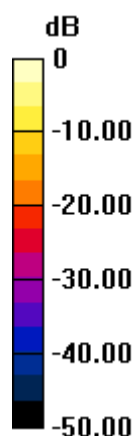
Peak SAR (extrapolated) = 0.175 W/kg

**SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.047 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.194 W/kg = -7.11 dBW/kg

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Date: 2023/12/8

ID: 018

Report No. :TESA2311000704EN

CAT.M1 Band 5 (5MHz)\_Body\_Top Edge\_CH 20425\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 826.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 826.5$  MHz;  $\sigma = 0.881$  S/m;  $\epsilon_r = 40.313$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 826.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0941 W/kg

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

Reference Value = 3.304 V/m; Power Drift = 0.16 dB

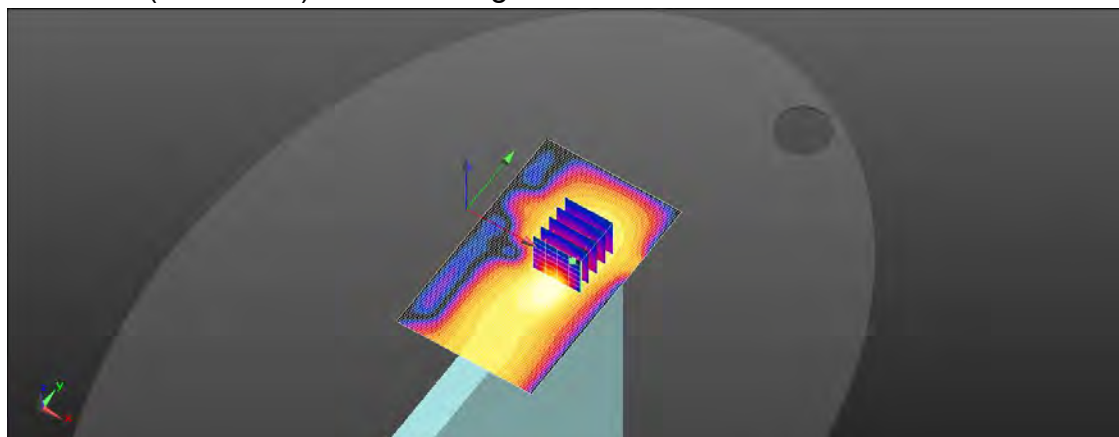
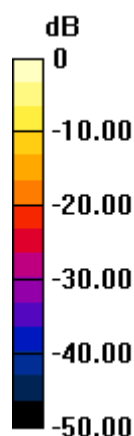
Peak SAR (extrapolated) = 0.142 W/kg

**SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.032 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

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

Maximum value of SAR (measured) = 0.105 W/kg



0 dB = 0.0941 W/kg = -10.27 dBW/kg

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Date: 2023/12/6

ID: 019

Report No. :TESA2311000704EN

CAT.M1 Band 12 (5MHz)\_Body\_Top Edge\_CH 23155\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 713.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 713.5 \text{ MHz}$ ;  $\sigma = 0.869 \text{ S/m}$ ;  $\epsilon_r = 43.636$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 713.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0639 W/kg

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

Reference Value = 3.308 V/m; Power Drift = 0.11 dB

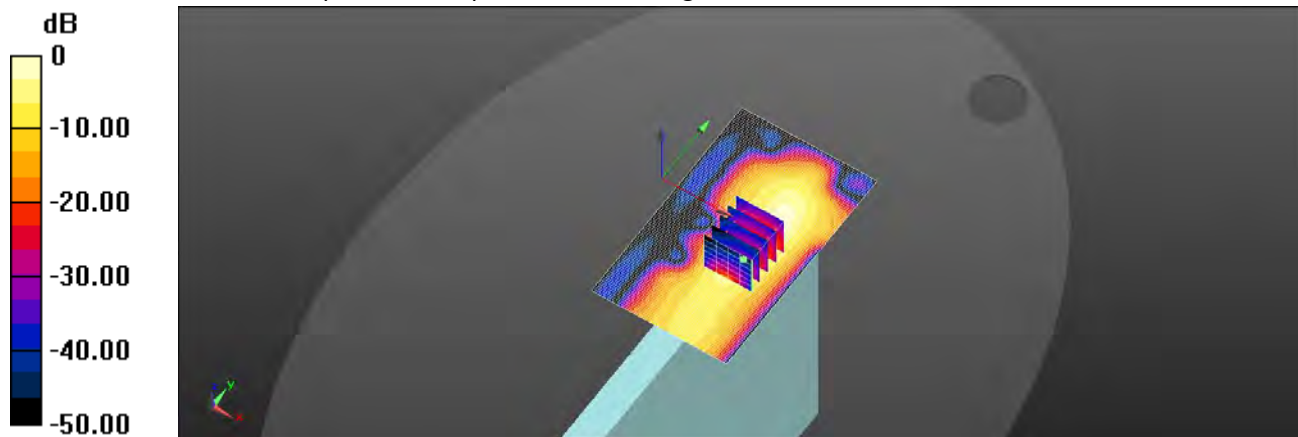
Peak SAR (extrapolated) = 0.110 W/kg

**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.021 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 40.1%

Maximum value of SAR (measured) = 0.0666 W/kg



0 dB = 0.0639 W/kg = -11.95 dBW/kg

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Date: 2023/12/6

ID: 020

Report No. :TESA2311000704EN

CAT.M1 Band 13 (5MHz)\_Body\_Top Edge\_CH 23255\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 784.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 784.5$  MHz;  $\sigma = 0.928$  S/m;  $\epsilon_r = 43.379$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 784.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0836 W/kg

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

Reference Value = 3.462 V/m; Power Drift = 0.05 dB

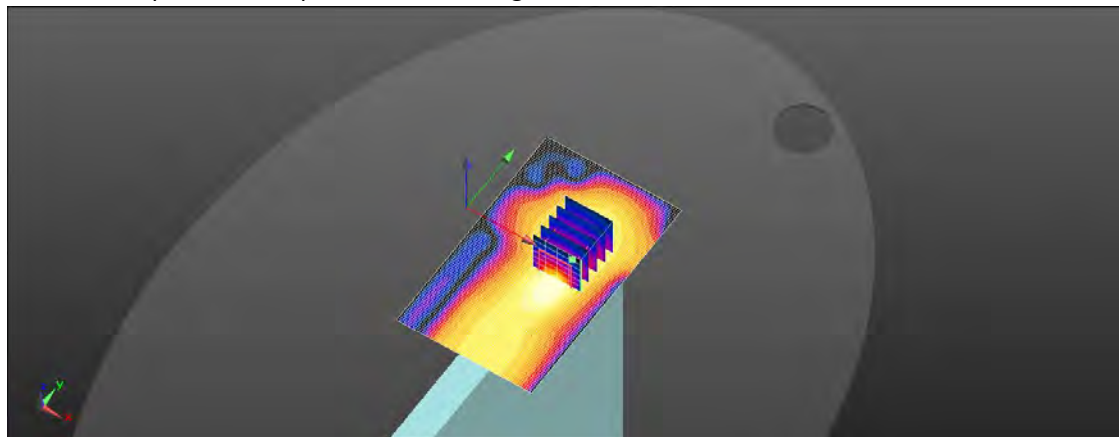
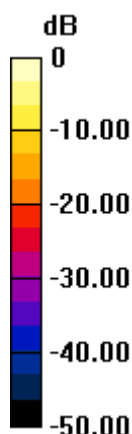
Peak SAR (extrapolated) = 0.126 W/kg

**SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.029 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.0919 W/kg



0 dB = 0.0836 W/kg = -10.78 dBW/kg

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Date: 2023/12/6

ID: 021

Report No. :TESA2311000704EN

CAT.M1 Band 14 (5MHz)\_Body\_Top Edge\_CH 23305\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 790.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 790.5$  MHz;  $\sigma = 0.935$  S/m;  $\epsilon_r = 43.334$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 790.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0844 W/kg

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

Reference Value = 3.865 V/m; Power Drift = 0.18 dB

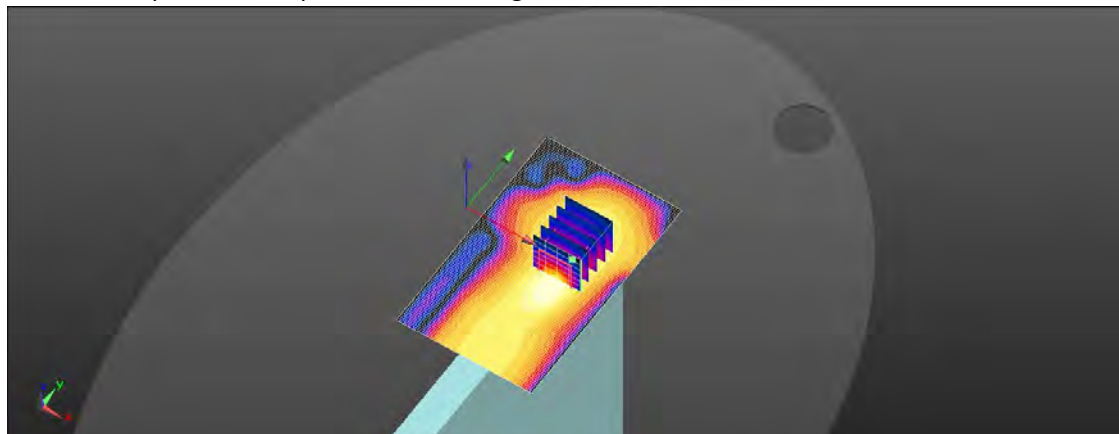
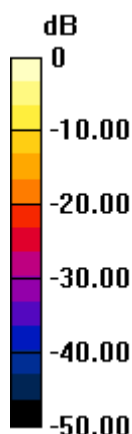
Peak SAR (extrapolated) = 0.127 W/kg

**SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.029 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.0928 W/kg



0 dB = 0.0844 W/kg = -10.74 dBW/kg

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Date: 2023/12/10

ID: 022

Report No. :TESA2311000704EN

CAT.M1 Band 25 (5MHz)\_Body\_Top Edge\_CH 26365\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1882.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1882.5$  MHz;  $\sigma = 1.421$  S/m;  $\epsilon_r = 38.465$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1882.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

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

Reference Value = 3.832 V/m; Power Drift = 0.12 dB

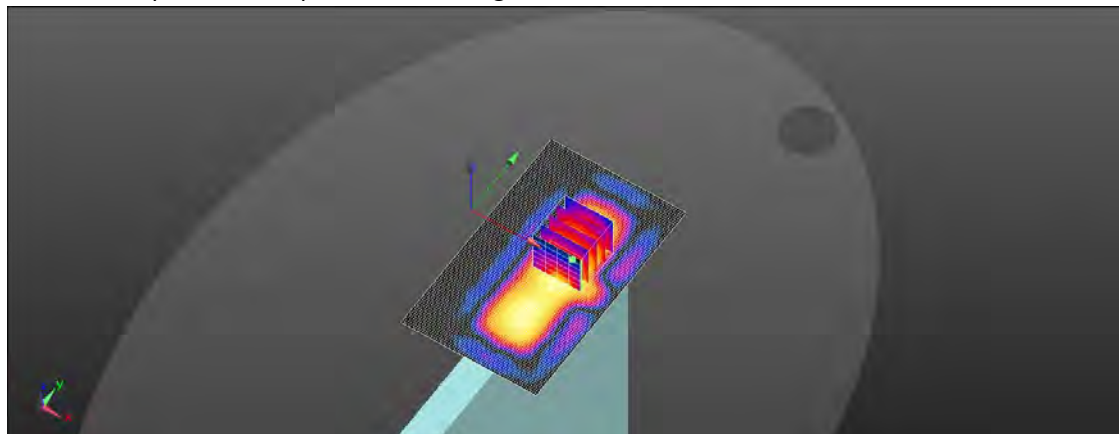
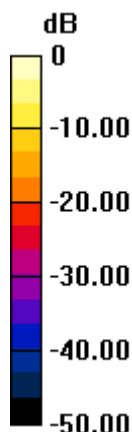
Peak SAR (extrapolated) = 0.157 W/kg

**SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.047 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.125 W/kg



0 dB = 0.184 W/kg = -7.35 dBW/kg

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Date: 2023/12/8

ID: 023

Report No. :TESA2311000704EN

CAT.M1 Band 26 (5MHz)\_Body\_Top Edge\_CH 26715\_QPSK\_1-0\_Index 0\_0mm\_FCC

Communication System: LTE; Frequency: 816.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 816.5 \text{ MHz}$ ;  $\sigma = 0.87 \text{ S/m}$ ;  $\epsilon_r = 40.36$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 816.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0949 W/kg

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

Reference Value = 3.361 V/m; Power Drift = 0.11 dB

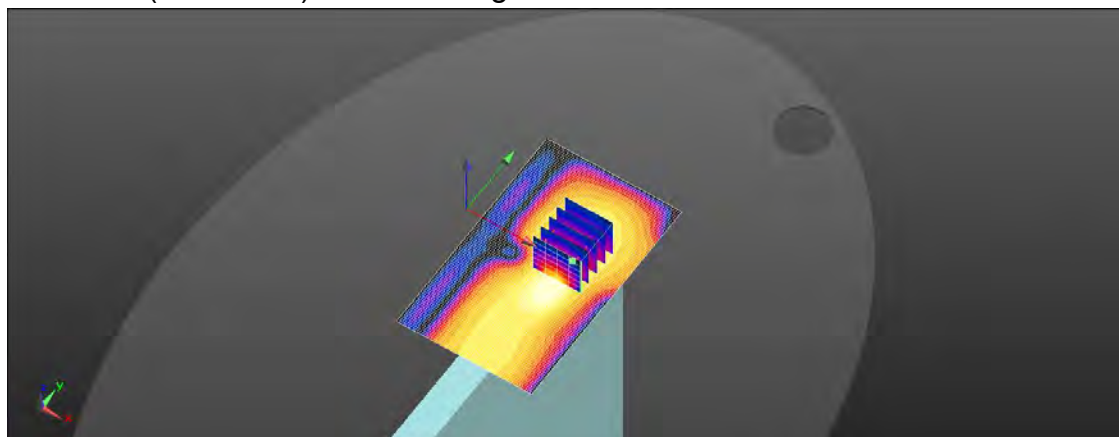
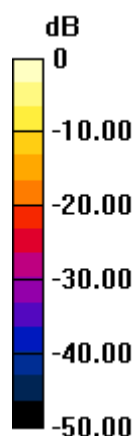
Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.032 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.2%

Maximum value of SAR (measured) = 0.104 W/kg



0 dB = 0.0949 W/kg = -10.23 dBW/kg

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Date: 2023/12/9

ID: 025

Report No.: TESA2311000704EN

CAT.M1 Band 66 (5MHz)\_Body\_Top Edge\_CH 132647\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 1777.5 MHz; Duty cycle= 1:3.32

Medium parameters used:  $f = 1777.5$  MHz;  $\sigma = 1.34$  S/m;  $\epsilon_r = 38.604$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.6, 8.56, 9.12) @ 1777.5 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.201 W/kg

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

Reference Value = 5.189 V/m; Power Drift = 0.14 dB

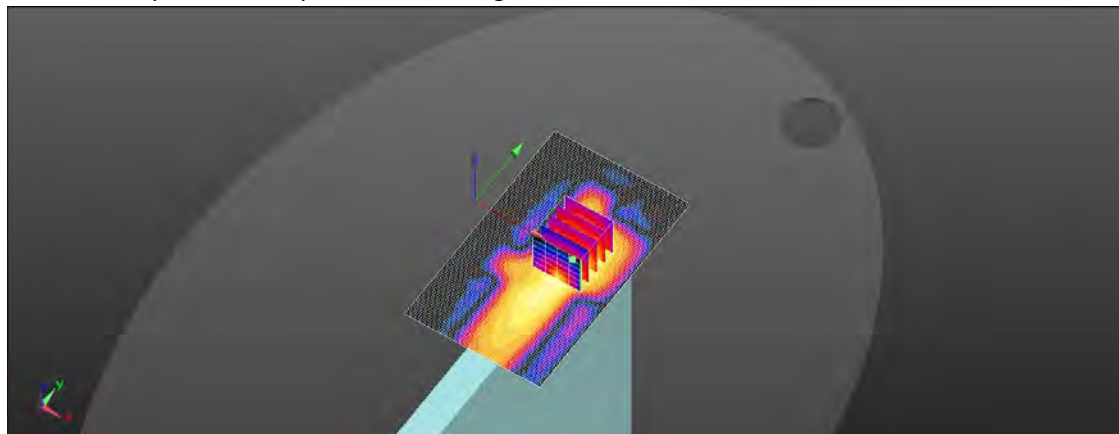
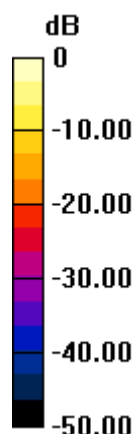
Peak SAR (extrapolated) = 0.218 W/kg

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

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.7%

Maximum value of SAR (measured) = 0.177 W/kg



0 dB = 0.201 W/kg = -6.96 dBW/kg

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Date: 2023/12/6

ID: 026

Report No. :TESA2311000704EN

CAT.M1 Band 85 (5MHz)\_Body\_Top Edge\_CH 134092\_QPSK\_1-0\_Index 0\_0mm

Communication System: LTE; Frequency: 707 MHz; Duty cycle= 1:3.32

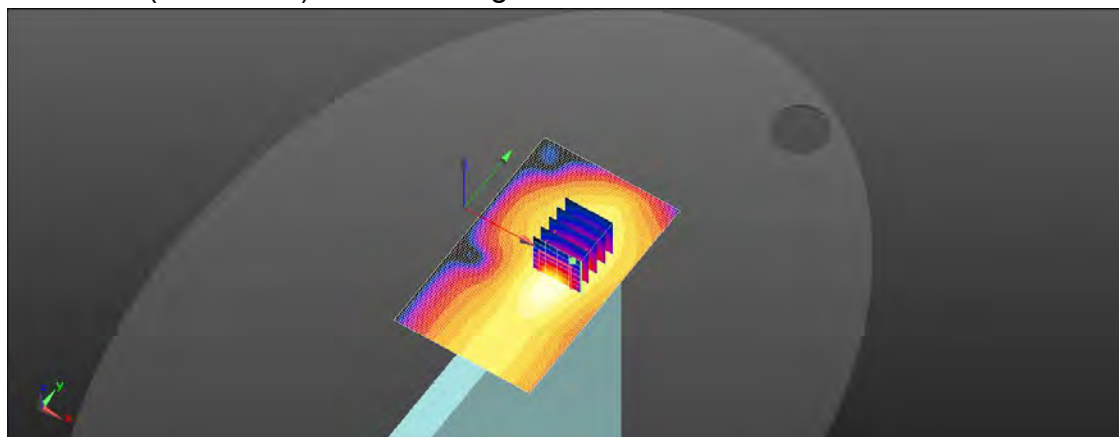
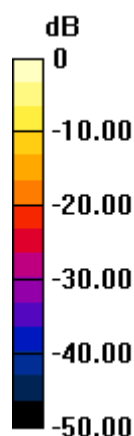
Medium parameters used:  $f = 707 \text{ MHz}$ ;  $\sigma = 0.865 \text{ S/m}$ ;  $\epsilon_r = 43.685$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature:  $22.1^\circ\text{C}$ ; Liquid temperature:  $21.8^\circ\text{C}$ 

## DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 707 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) =  $0.312 \text{ W/kg}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $6.453 \text{ V/m}$ ; Power Drift =  $0.19 \text{ dB}$ Peak SAR (extrapolated) =  $0.438 \text{ W/kg}$ **SAR(1 g) =  $0.217 \text{ W/kg}$ ; SAR(10 g) =  $0.115 \text{ W/kg}$** Smallest distance from peaks to all points 3 dB below =  $8.2 \text{ mm}$ Ratio of SAR at M2 to SAR at M1 =  $52.4\%$ Maximum value of SAR (measured) =  $0.316 \text{ W/kg}$  $0 \text{ dB} = 0.312 \text{ W/kg} = -5.06 \text{ dBW/kg}$ 

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## 11 SAR SYSTEM CHECK RESULTS

Date: 2023/12/5

Report No. :TESA2311000704EN

Dipole 750 MHz\_SN:1015 Vendor1

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.901 \text{ S/m}$ ;  $\epsilon_r = 43.507$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 750 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (41x141x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.62 W/kg

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

Reference Value = 54.62 V/m; Power Drift = 0.02 dB

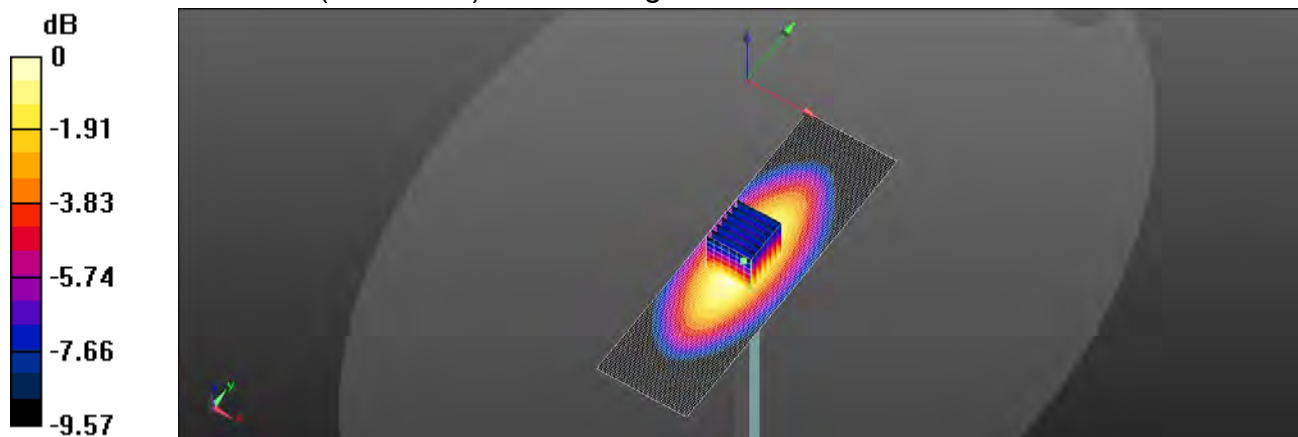
Peak SAR (extrapolated) = 3.03 W/kg

**SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.43 W/kg**

Smallest distance from peaks to all points 3 dB below = 19.1 mm

Ratio of SAR at M2 to SAR at M1 = 70%

Maximum value of SAR (measured) = 2.65 W/kg



0 dB = 2.65 W/kg = 4.23 dBW/kg

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Date: 2023/12/6

**Report No. :TESA2311000704EN****Dipole 750 MHz \_SN:1015 Vendor2**

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.907 \text{ S/m}$ ;  $\epsilon_r = 43.49$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.97, 9.73, 10.82) @ 750 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (41x141x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.55 W/kg

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

Reference Value = 58.18 V/m; Power Drift = 0.05 dB

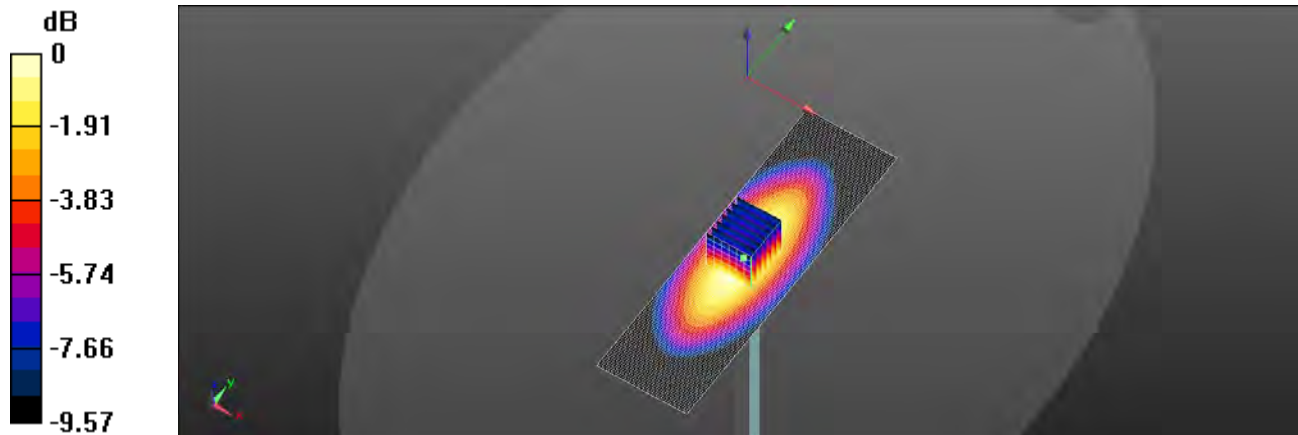
Peak SAR (extrapolated) = 2.94 W/kg

**SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.4 W/kg**

Smallest distance from peaks to all points 3 dB below = 18.6 mm

Ratio of SAR at M2 to SAR at M1 = 70%

Maximum value of SAR (measured) = 2.57 W/kg



0 dB = 2.57 W/kg = 4.10 dBW/kg

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Date: 2023/12/7

Report No. :TESA2311000704EN

Dipole 835 MHz\_SN:4d063 Vendor1

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.894 \text{ S/m}$ ;  $\epsilon_r = 40.562$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 835 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 2.97 W/kg

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

Reference Value = 60.83 V/m; Power Drift = 0.08 dB

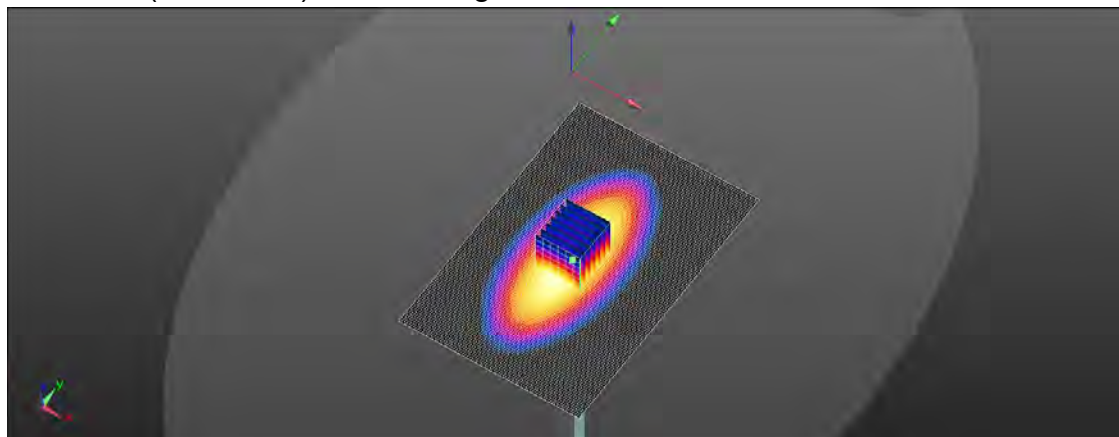
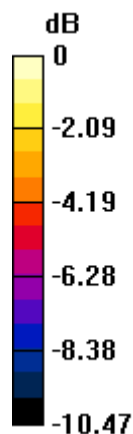
Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.58 W/kg**

Smallest distance from peaks to all points 3 dB below = 19.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

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Date: 2023/12/8

**Report No. :TESA2311000704EN****Dipole 835 MHz\_SN:4d063 Vendor2**

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.891 \text{ S/m}$ ;  $\epsilon_r = 40.251$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(9.51, 9.16, 10) @ 835 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x121x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 2.89 W/kg

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

Reference Value = 61.73 V/m; Power Drift = -0.03 dB

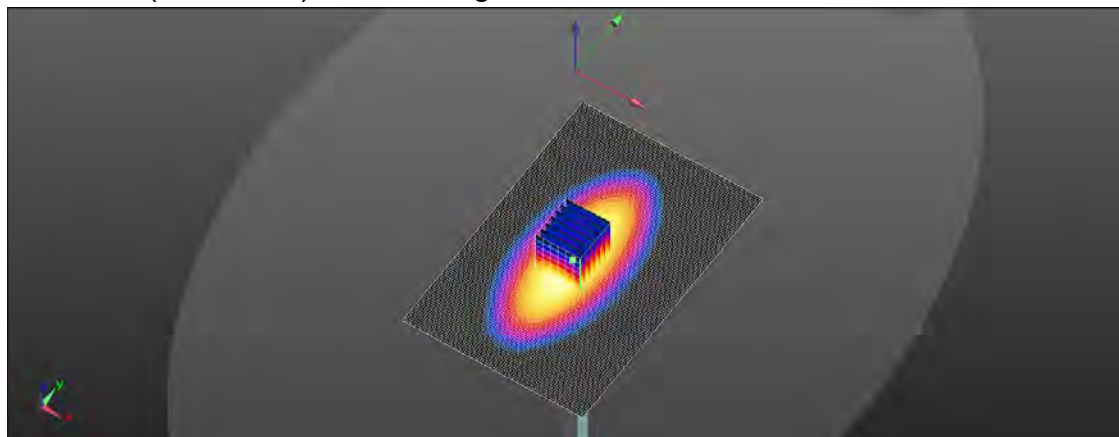
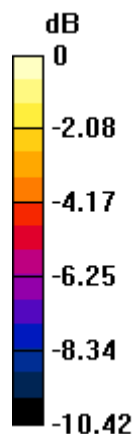
Peak SAR (extrapolated) = 3.45 W/kg

**SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.55 W/kg**

Smallest distance from peaks to all points 3 dB below = 19.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 dBW/kg

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Date: 2023/12/9

Report No. :TESA2311000704EN

Dipole 1750 MHz\_SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.318$  S/m;  $\epsilon_r = 38.667$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.6, 8.56, 9.12) @ 1750 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (41x71x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.8 W/kg

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

Reference Value = 84.78 V/m; Power Drift = -0.01 dB

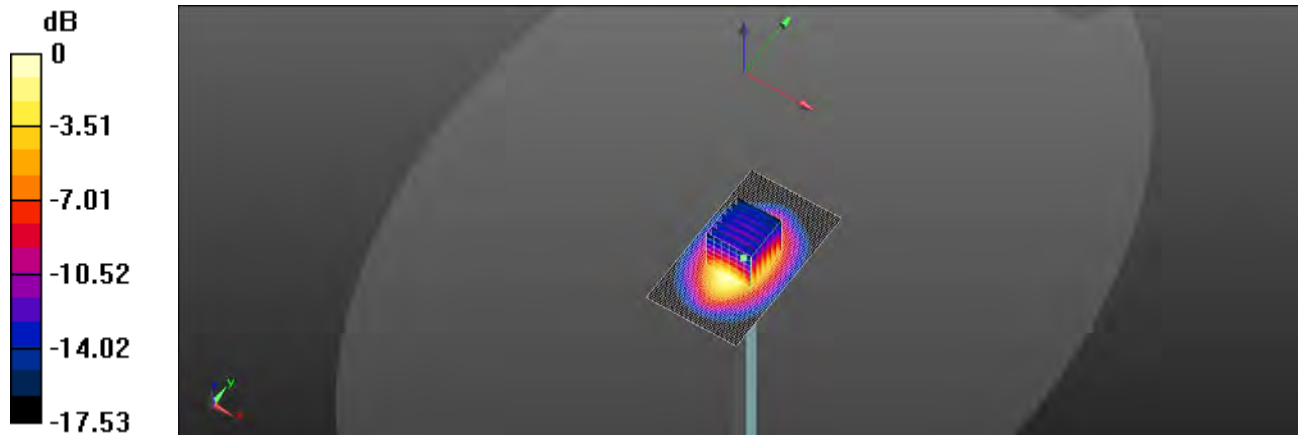
Peak SAR (extrapolated) = 17.2 W/kg

**SAR(1 g) = 9.02 W/kg; SAR(10 g) = 4.69 W/kg**

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 13.2 W/kg = 11.21 dBW/kg

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Date: 2023/12/10

Report No. :TESA2311000704EN

Dipole 1900 MHz\_SN:5d056

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.426$  S/m;  $\epsilon_r = 38.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7509; ConvF(8.12, 8.05, 8.74) @ 1900 MHz; Calibrated: 2023/4/26
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2023/8/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.3 W/kg

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

Reference Value = 112.9 V/m; Power Drift = 0.01 dB

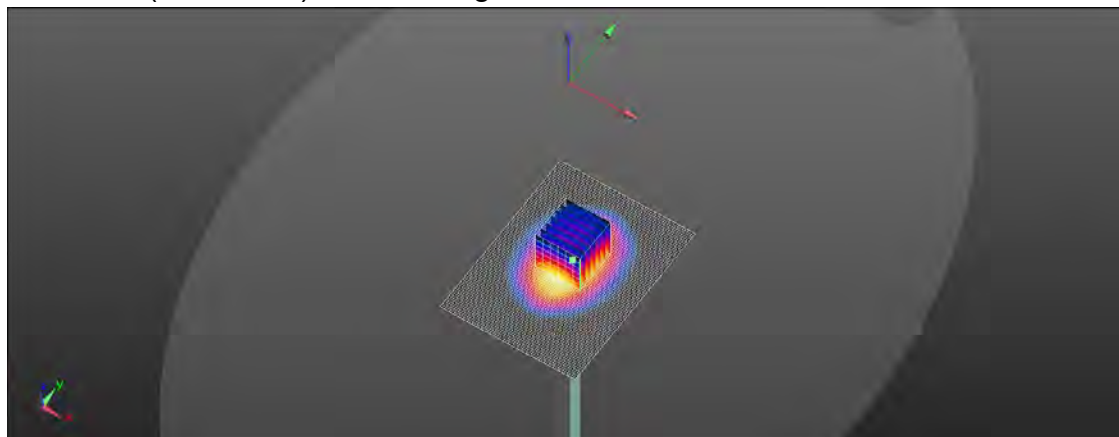
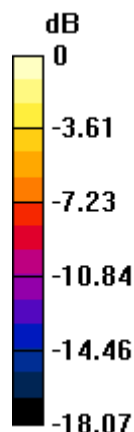
Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.39 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

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**12 APPENDIXES**

**Refer to separated files for the following appendixes.**

**12.1 SAR\_Appendix A Photographs**

**12.2 SAR\_Appendix B DAE & Probe Cal. Certificate**

**12.3 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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