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# SAR TEST REPORT





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

Product Name Notebook Computer

Brand Name

Model No.

N19W3

Prepared for Acer Incorporated

Prepared for Acer Incorporated 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City

22181, Taiwan (R.O.C)

**Standards** IEEE/ANSI C95.1-1992. IEEE 1528-2013

FCC ID HLZAI7921W

Date of Receipt Feb. 03, 2021

**Date of Test(s)** Feb. 10, 2021 ~ Feb. 14, 2021

Date of Issue Mar. 25, 2021

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 / Ruby Ou | Engineer / Kiki Lin | Asst. Manager / John Yeh |
|-----------------|---------------------|--------------------------|
| Ruby Ou         | Diki Lin            | John Teh                 |
|                 |                     | Date: Mar. 25, 2021      |

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# **Revision History**

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| ES/2020/C0018 | Rev.00   | Initial creation of document | Mar. 25, 2021 |
|               |          |                              |               |
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# 0. Guidance applied

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB248227D01v02r02

KDB865664D01v01r04

KDB865664D02v01r02

KDB447498D01v06

KDB616217D04v01r02

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# 1. General Information

### 1.1 Testing Laboratory

|   | · ·                    |  |  |  |  |  |
|---|------------------------|--|--|--|--|--|
| SGS Taiwan Ltd. Central RF Lab  |                        |  |  |  |  |  |
| No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei |                        |  |  |  |  |  |
| City, Taiwan  |                        |  |  |  |  |  |
| FCC Designation   | TM0027                 |  |  |  |  |  |
| Number  | TW0027                 |  |  |  |  |  |
| Tel   | +886-2-2299-3279       |  |  |  |  |  |
| Fax   | +886-2-2298-0488       |  |  |  |  |  |
| Internet  | http://www.tw.sgs.com/ |  |  |  |  |  |

### 1.2 Details of Applicant

| Company Name    | Acer Incorporated   |
|-----------------|---|
| Company Address | 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C) |

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# 1.3 Description of EUT

#### General Information of Host:

| General Information of Host: |   |        |                  |      |  |  |  |  |
|------------------------------|---|--------|------------------|------|--|--|--|--|
| Equipment Under Test         | Notebook Computer                               |        |                  |      |  |  |  |  |
| Brand Name                   | acer  |        |                  |      |  |  |  |  |
| Model No.                    | N19W3   |        |                  |      |  |  |  |  |
| Integrated Module            | Brand Name: MediaTek                            |        |                  |      |  |  |  |  |
| miogratou module             | Model Name: MT7921                              |        |                  |      |  |  |  |  |
| FCC ID                       | HLZAI7921W                                      |        |                  |      |  |  |  |  |
| Mode of Operation            | ⊠WLAN802.11 a/b/g/n/ac/ax(20M/40I<br>⊠Bluetooth | M/80M) |                  |      |  |  |  |  |
|                              | WLAN802.11<br>a/b/g/n/ac/ax(20M/40M/80M)        | Ref    | er to p<br>32-33 | _    |  |  |  |  |
| Duty Cycle                   | Bluetooth                                       |        | 77.1%            |      |  |  |  |  |
|                              | WLAN802.11 b/g/n/ax(20M)                        | 2412   | _                | 2472 |  |  |  |  |
|                              | WLAN802.11 n/ax(40M)                            | 2422   | _                | 2462 |  |  |  |  |
|                              | WLAN802.11 a/n/ac/ax(20M) 5.2G                  | 5180   | _                | 5240 |  |  |  |  |
|                              | WLAN802.11 n/ac/ax(40M) 5.2G                    | 5190   | _                | 5230 |  |  |  |  |
|                              | WLAN802.11 ac/ax(80M) 5.2G                      | 5210   |                  |      |  |  |  |  |
|                              | WLAN802.11 a/n/ac/ax(20M) 5.3G                  | 5260   | _                | 5320 |  |  |  |  |
|                              | WLAN802.11 n/ac/ax(40M) 5.3G                    | 5270   | _                | 5310 |  |  |  |  |
| TX Frequency Range (MHz)     | WLAN802.11 ac/ax(80M) 5.3G                      |        | 5290             | )    |  |  |  |  |
| ,                            | WLAN802.11 a/n/ac/ax(20M) 5.6G                  | 5500   | _                | 5720 |  |  |  |  |
|                              | WLAN802.11 n/ac/ax(40M) 5.6G                    | 5510   | _                | 5710 |  |  |  |  |
|                              | WLAN802.11 ac/ax(80M) 5.6G                      | 5530   | _                | 5690 |  |  |  |  |
|                              | WLAN802.11 a/n/ac/ax(20M) 5.8G                  | 5745   | _                | 5825 |  |  |  |  |
|                              | WLAN802.11 n/ac/ax(40M) 5.8G                    | 5755   | _                | 5795 |  |  |  |  |
|                              | WLAN802.11 ac/ax(80M) 5.8G                      |        | 5775             |      |  |  |  |  |
|                              | Bluetooth                                       | 2402   | _                | 2480 |  |  |  |  |

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|                           | WLAN802.11 b/g/n/ax(20M)       | 1   | _   | 13  |
|---------------------------|--------------------------------|-----|-----|-----|
|                           | WLAN802.11 n/ax(40M)           | 3   | _   | 11  |
|                           | WLAN802.11 a/n/ac/ax(20M) 5.2G | 36  | _   | 48  |
|                           | WLAN802.11 n/ac/ax(40M) 5.2G   | 38  | _   | 46  |
|                           | WLAN802.11 ac/ax(80M) 5.2G     |     | 42  |     |
|                           | WLAN802.11 a/n/ac/ax(20M) 5.3G | 52  | _   | 64  |
| Channel Number<br>(ARFCN) | WLAN802.11 n/ac/ax(40M) 5.3G   | 54  | _   | 62  |
|                           | WLAN802.11 ac/ax(80M) 5.3G     |     | 58  |     |
|                           | WLAN802.11 a/n/ac/ax(20M) 5.6G | 100 | _   | 144 |
|                           | WLAN802.11 n/ac/ax(40M) 5.6G   |     | _   | 142 |
|                           | WLAN802.11 ac/ax(80M) 5.6G     | 106 | _   | 138 |
|                           | WLAN802.11 a/n/ac/ax(20M) 5.8G | 149 | _   | 165 |
|                           | WLAN802.11 n/ac/ax(40M) 5.8G   | 151 | _   | 159 |
|                           | WLAN802.11 ac/ax(80M) 5.8G     |     | 155 |     |
|                           | Bluetooth                      | 0   | _   | 78  |

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|         | Max. SAR (1g) (Unit: W/Kg) |          |          |         |            |  |  |  |
|---------|----------------------------|----------|----------|---------|------------|--|--|--|
| Antenna | Band                       | Measured | Reported | Channel | Position   |  |  |  |
|         | WLAN 802.11b               | 1.12     | 1.20     | 6       | Left side  |  |  |  |
|         | Bluetooth(GFSK)            | 0.28     | 0.36     | 39      | Left side  |  |  |  |
| Aux     | WLAN 802.11a 5.2G          | 0.57     | 0.66     | 44      | Left side  |  |  |  |
| Aux     | WLAN 802.11a 5.3G          | 0.50     | 0.55     | 56      | Left side  |  |  |  |
|         | WLAN 802.11a 5.6G          | 1.08     | 1.18     | 140     | Left side  |  |  |  |
|         | WLAN 802.11a 5.8G          | 0.81     | 1.00     | 157     | Left side  |  |  |  |
|         | WLAN 802.11b               | 0.95     | 1.01     | 6       | Right side |  |  |  |
|         | WLAN 802.11a 5.2G          | 0.27     | 0.29     | 44      | Right side |  |  |  |
|         | WLAN 802.11a 5.3G          | 0.13     | 0.15     | 60      | Right side |  |  |  |
|         | WLAN 802.11a 5.6G          | 1.08     | 1.18     | 140     | Right side |  |  |  |
|         | WLAN 802.11a 5.8G          | 0.83     | 0.93     | 165     | Right side |  |  |  |

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# WLAN802.11 a/b/g/n/ax(20M/40M)/ac/ax(20M/40M/80M) conducted power table:

| TEANOUZITI GIBIGITI GALLETI | LANGUE III arbiginiax (2011/1-011)/ac/ax (2011/1-011/1/0011) ochacica power |      |            |  |  |  |  |  |
|-----------------------------|---|------|------------|--|--|--|--|--|
| Antenna                     | SI  | MIMO |            |  |  |  |  |  |
| Band                        | Main  | Aux  | Main + Aux |  |  |  |  |  |
| WLAN802.11b                 | V   | V    | -          |  |  |  |  |  |
| WLAN802.11g                 | V   | V    | -          |  |  |  |  |  |
| WLAN802.11n(20M)            | V   | V    | V          |  |  |  |  |  |
| WLAN802.11n(40M)            | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ax(20M)           | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ax(40M)           | V   | V    | V          |  |  |  |  |  |
| WLAN802.11a                 | V   | V    | -          |  |  |  |  |  |
| WLAN802.11n(20M) 5G         | V   | V    | V          |  |  |  |  |  |
| WLAN802.11n(40M) 5G         | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ac(20M) 5G        | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ac(40M) 5G        | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ac(80M) 5G        | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ax(20M) 5G        | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ax(40M) 5G        | V   | V    | V          |  |  |  |  |  |
| WLAN802.11ax(80M) 5G        | V   | V    | V          |  |  |  |  |  |

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#### Notebook mode

#### Main

|             | Main Antenna   |         |                    |           |  |                           |  |  |  |
|-------------|----------------|---------|--------------------|-----------|--|---------------------------|--|--|--|
|             |                | I       |                    |           |  |                           |  |  |  |
| Band        | Mode           | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |  |  |  |
|             |                | 1       | 2412               |           | 18.50  | 18.47                     |  |  |  |
|             |                | 6       | 2437               | 1         | 18.50  | 18.49                     |  |  |  |
|             | 802.11b        | 11      | 2462               | 1Mbps     | 18.50  | 18.40                     |  |  |  |
|             |                | 12      | 2467               | 1         | 16.00  | 15.98                     |  |  |  |
|             |                | 13      | 2472               |           | 9.50   | 9.39                      |  |  |  |
|             |                | 1       | 2412               |           | 17.00  | 16.88                     |  |  |  |
|             |                | 6       | 2437               | 1         | 19.00  | 18.37                     |  |  |  |
|             | 802.11g        | 11      | 2462               | 6Mbps     | 15.50  | 15.42                     |  |  |  |
|             |                | 12      | 2467               | 1         | 12.00  | 11.85                     |  |  |  |
|             |                | 13      | 2472               | 1         | 7.50   | 7.37                      |  |  |  |
|             | 802.11n20-HT0  | 1       | 2412               | MCS0      | 17.00  | 16.94                     |  |  |  |
|             |                | 6       | 2437               |           | 18.00  | 17.96                     |  |  |  |
|             |                | 11      | 2462               |           | 17.00  | 16.90                     |  |  |  |
|             |                | 12      | 2467               |           | 10.00  | 9.89                      |  |  |  |
| 2450 MHz    |                | 13      | 2472               | 1         | 6.00   | 5.85                      |  |  |  |
| 2430 WII IZ | 802.11ax20-HE0 | 1       | 2412               |           | 16.00  | 15.84                     |  |  |  |
|             |                | 6       | 2437               | MCS0      | 17.00  | 16.94                     |  |  |  |
|             |                | 11      | 2462               |           | 15.50  | 15.41                     |  |  |  |
|             |                | 12      | 2467               |           | 9.50   | 9.42                      |  |  |  |
|             |                | 13      | 2472               |           | 7.00   | 6.92                      |  |  |  |
|             |                | 3       | 2422               |           | 15.00  | 14.96                     |  |  |  |
|             |                | 6       | 2437               |           | 16.00  | 15.92                     |  |  |  |
|             | 802.11n40-HT0  | 9       | 2452               | MCS0      | 15.00  | 14.85                     |  |  |  |
|             |                | 10      | 2457               |           | 8.50   | 8.45                      |  |  |  |
|             |                | 11      | 2462               |           | 6.50   | 6.42                      |  |  |  |
|             |                | 3       | 2422               |           | 14.00  | 13.96                     |  |  |  |
|             |                | 6       | 2437               | MCS0      | 15.00  | 14.88                     |  |  |  |
|             | 802.11ax40-HE0 | 9       | 2452               |           | 13.00  | 13.00                     |  |  |  |
|             |                | 10      | 2457               |           | 7.50   | 7.44                      |  |  |  |
|             |                | 11      | 2462               |           | 5.50   | 5.36                      |  |  |  |

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| Main Antenna  |                  |         |                    |           |   |                           |  |  |
|---------------|------------------|---------|--------------------|-----------|---|---------------------------|--|--|
| Band          | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |
|               |                  | 36      | 5180               |           | 15.50   | 15.36                     |  |  |
|               | 802.11a          | 40      | 5200               | 6Mbps     | 17.50   | 17.32                     |  |  |
|               | 002.11a          | 44      | 5220               | GIVIDPS   | 17.50   | 17.45                     |  |  |
|               |                  | 48      | 5240               |           | 17.50   | 17.39                     |  |  |
|               |                  | 36      | 5180               |           | 15.50   | 15.27                     |  |  |
|               | 802.11n20-HT0    | 40      | 5200               | MCS0      | 15.50   | 15.26                     |  |  |
|               |                  | 44      | 5220               | IVICOU    | 15.50   | 15.32                     |  |  |
|               |                  | 48      | 5240               |           | 15.50   | 15.24                     |  |  |
|               | 802.11ac20-VHT0  | 36      | 5180               | MCS0      | 15.50   | 15.19                     |  |  |
|               |                  | 40      | 5200               |           | 15.50   | 15.17                     |  |  |
|               |                  | 44      | 5220               |           | 15.50   | 15.34                     |  |  |
| 5.15-5.25 GHz |                  | 48      | 5240               |           | 15.50   | 15.31                     |  |  |
| 3.13-3.23 GHZ | 802.11ax20-HE0   | 36      | 5180               |           | 15.50   | 15.29                     |  |  |
|               |                  | 40      | 5200               | MCS0      | 15.50   | 15.24                     |  |  |
|               | 002.11ax20-11L0  | 44      | 5220               | IVICOO    | 15.50   | 15.34                     |  |  |
|               |                  | 48      | 5240               |           | 15.50   | 15.20                     |  |  |
|               | 802.11n40-HT0    | 38      | 5190               | MCS0      | 14.50   | 14.23                     |  |  |
|               | 002.111140-1110  | 46      | 5230               | WICCO     | 14.50   | 14.23                     |  |  |
|               | 802.11ac40-VHT0  | 38      | 5190               | MCS0      | 14.50   | 14.19                     |  |  |
|               | 002.11ac+0-V1110 | 46      | 5230               | WICCO     | 14.50   | 14.22                     |  |  |
|               | 802.11ax40-HE0   | 38      | 5190               | MCS0      | 14.50   | 14.18                     |  |  |
|               |                  | 46      | 5230               |           | 14.50   | 14.17                     |  |  |
|               | 802.11ac80-VHT0  | 42      | 5210               | MCS0      | 13.50   | 13.20                     |  |  |
|               | 802.11ax80-HE0   | 42      | 5210               | MCS0      | 13.50   | 13.19                     |  |  |

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|                | Main Antenna                 |         |                    |           |   |                           |  |  |  |
|----------------|------------------------------|---------|--------------------|-----------|---|---------------------------|--|--|--|
| Band           | Mode                         | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|                |                              | 52      | 5260               |           | 17.50   | 17.13                     |  |  |  |
|                | 802.11a                      | 56      | 5280               | 6Mbps     | 17.50   | 17.18                     |  |  |  |
|                | 002.11a                      | 60      | 5300               | Olvibps   | 17.50   | 17.27                     |  |  |  |
|                |                              | 64      | 5320               |           | 15.50   | 15.48                     |  |  |  |
|                |                              | 52      | 5260               |           | 15.50   | 15.32                     |  |  |  |
|                | 802.11n20-HT0                | 56      | 5280               | MCS0      | 15.50   | 15.31                     |  |  |  |
|                |                              | 60      | 5300               | IVICOU    | 15.50   | 15.33                     |  |  |  |
|                |                              | 64      | 5320               |           | 15.50   | 15.24                     |  |  |  |
|                | 802.11ac20-VHT0              | 52      | 5260               | MCS0      | 15.50   | 15.26                     |  |  |  |
|                |                              | 56      | 5280               |           | 15.50   | 15.21                     |  |  |  |
|                |                              | 60      | 5300               |           | 15.50   | 15.24                     |  |  |  |
| 5.25-5.35 GHz  |                              | 64      | 5320               |           | 15.50   | 15.33                     |  |  |  |
| 0.20-0.00 0112 | 802.11ax20-HE0               | 52      | 5260               |           | 13.50   | 13.16                     |  |  |  |
|                |                              | 56      | 5280               | MCS0      | 13.50   | 13.19                     |  |  |  |
|                | 002.11ax20-11L0              | 60      | 5300               | IVICOO    | 13.50   | 13.22                     |  |  |  |
|                |                              | 64      | 5320               |           | 13.50   | 13.34                     |  |  |  |
|                | 802.11n40-HT0                | 54      | 5270               | MCS0      | 14.50   | 14.21                     |  |  |  |
|                | 002.111140 1110              | 62      | 5310               | WICCO     | 14.50   | 14.19                     |  |  |  |
|                | 802.11ac40-VHT0              | 54      | 5270               | MCS0      | 14.50   | 14.23                     |  |  |  |
|                | 002.11a0 <del>1</del> 0-1110 | 62      | 5310               | 101000    | 14.50   | 14.35                     |  |  |  |
|                | 802.11ax40-HE0               | 54      | 5270               | MCS0      | 14.50   | 14.16                     |  |  |  |
|                |                              | 62      | 5310               |           | 14.50   | 14.32                     |  |  |  |
|                | 802.11ac80-VHT0              | 58      | 5290               | MCS0      | 11.00   | 10.73                     |  |  |  |
|                | 802.11ax80-HE0               | 58      | 5290               | MCS0      | 13.50   | 13.18                     |  |  |  |

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| Main Antenna |                  |            |                    |           |  |                           |  |  |
|--------------|------------------|------------|--------------------|-----------|--|---------------------------|--|--|
| Band         | Mode             | Channel    | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |  |  |
|              |                  | 100        | 5500               |           | 16.50  | 16.48                     |  |  |
|              |                  | 104        | 5520               |           | 16.50  | 16.40                     |  |  |
|              |                  | 116        | 5580               |           | 16.50  | 16.41                     |  |  |
|              | 802.11a          | 120        | 5600               | 6Mbps     | 16.50  | 16.38                     |  |  |
|              |                  | 136        | 5680               |           | 16.50  | 16.40                     |  |  |
|              |                  | 140        | 5700               |           | 16.50  | 16.41                     |  |  |
|              |                  | 144        | 5720               |           | 16.50  | 16.38                     |  |  |
|              |                  | 100        | 5500               |           | 16.50  | 16.45                     |  |  |
|              |                  | 104        | 5520               |           | 16.50  | 16.40                     |  |  |
|              |                  | 116        | 5580               |           | 16.50  | 16.47                     |  |  |
|              | 802.11n20-HT0    | 120        | 5600               | MCS0      | 13.00  | 12.91                     |  |  |
|              |                  | 136        | 5680               |           | 16.50  | 16.40                     |  |  |
|              |                  | 140        | 5700               |           | 16.50  | 16.47                     |  |  |
|              |                  | 144        | 5720               |           | 13.00  | 12.91                     |  |  |
|              |                  | 100        | 5500               |           | 16.50  | 15.19                     |  |  |
|              |                  | 104        | 5520               |           | 16.50  | 15.49                     |  |  |
|              |                  | 116        | 5580               |           | 16.50  | 15.45                     |  |  |
|              | 802.11ac20-VHT0  | 120        | 5600               | MCS0      | 13.00  | 11.56                     |  |  |
|              |                  | 136        | 5680               |           | 16.50  | 15.49                     |  |  |
|              |                  | 140        | 5700               |           | 16.50  | 15.45                     |  |  |
|              |                  | 144        | 5720               |           | 13.00  | 11.56                     |  |  |
|              |                  | 100        | 5500               |           | 16.50  | 14.81                     |  |  |
|              |                  | 104        | 5520               |           | 16.50  | 15.07                     |  |  |
| 5000 MIL     | 000 44 00 1150   | 116        | 5580               | MCS0      | 16.50  | 15.42                     |  |  |
| 5600 MHz     | 802.11ax20-HE0   | 120        | 5600               |           | 13.50  | 13.42                     |  |  |
|              |                  | 136        | 5680               |           | 16.50  | 15.07                     |  |  |
|              |                  | 140        | 5700               |           | 16.50  | 15.42                     |  |  |
|              |                  | 144        | 5720               |           | 13.50  | 13.42                     |  |  |
|              |                  | 102        | 5510               |           | 16.50  | 16.48                     |  |  |
|              | 802.11n40-HT0    | 110        | 5550               | MCCO      | 16.50  | 16.43                     |  |  |
|              | 602.111140-H10   | 118        | 5590               | MCS0      | 16.50  | 16.43                     |  |  |
|              |                  | 134<br>142 | 5670<br>5710       |           | 16.50<br>10.00                                     | 16.45<br>9.93             |  |  |
|              |                  | 1          |                    |           |  |                           |  |  |
|              |                  | 102        | 5510<br>5550       |           | 16.50<br>16.50                                     | 14.66                     |  |  |
|              | 802.11ac40-VHT0  | 110<br>118 | 5550<br>5590       | MCS0      | 16.50<br>16.50                                     | 14.65<br>14.65            |  |  |
|              | 002.11a040-VITTU | 134        | 5590<br>5670       | IVICOU    |  | 14.65                     |  |  |
|              |                  | 142        | 5710               |           | 16.50<br>10.00                                     | 8.12                      |  |  |
|              |                  |            |                    |           |  |                           |  |  |
|              |                  | 102        | 5510               |           | 15.00  | 13.29                     |  |  |
|              | 802.11ax40-HE0   | 110        | 5550               | MCS0      | 15.00  | 13.29                     |  |  |
|              | 002.11ax40-11EU  | 118        | 5590<br>5670       | IVICOU    | 15.00<br>15.50                                     | 13.38                     |  |  |
|              |                  | 134<br>142 | 5670<br>5710       |           | 15.50<br>10.50                                     | 13.53<br>10.43            |  |  |
|              |                  |            |                    |           | 13.00  |                           |  |  |
|              | 802.11ac80-VHT0  | 106<br>122 | 5530<br>5610       | MCS0      | 14.50  | 11.17<br>12.89            |  |  |
|              | 002.11acou-V1110 | 138        | 5690               | IVICOU    | 14.50  | 9.92                      |  |  |
|              |                  | 106        | 5530               |           | 14.50  | 12.98                     |  |  |
|              | 802 112v90 UE0   | 100        | JJ30               | MCS0      | 14.50  | 12.30                     |  |  |
|              | 802.11ax80-HE0   | 122        | 5610               |           | 15.50  | 14.57                     |  |  |

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|            | Main Antenna    |         |                    |           |   |                           |  |  |  |  |
|------------|-----------------|---------|--------------------|-----------|---|---------------------------|--|--|--|--|
| Band       | Mode            | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |  |
|            |                 | 149     | 5745               |           | 20.00   | 19.68                     |  |  |  |  |
|            | 802.11a         | 157     | 5785               | 6Mbps     | 20.00   | 19.76                     |  |  |  |  |
|            |                 | 165     | 5825               |           | 20.00   | 19.86                     |  |  |  |  |
|            |                 | 149     | 5745               |           | 19.00   | 18.71                     |  |  |  |  |
|            | 802.11n20-HT0   | 157     | 5785               | MCS0      | 19.00   | 18.71                     |  |  |  |  |
|            |                 | 165     | 5825               |           | 18.50   | 18.24                     |  |  |  |  |
|            | 802.11ac20-VHT0 | 149     | 5745               |           | 19.00   | 18.73                     |  |  |  |  |
|            |                 | 157     | 5785               | MCS0      | 19.00   | 18.74                     |  |  |  |  |
|            |                 | 165     | 5825               |           | 18.50   | 18.35                     |  |  |  |  |
| 5800 MHz   |                 | 149     | 5745               |           | 18.00   | 17.77                     |  |  |  |  |
| 3600 IVITZ | 802.11ax20-HE0  | 157     | 5785               | MCS0      | 18.00   | 17.78                     |  |  |  |  |
|            |                 | 165     | 5825               |           | 17.50   | 17.25                     |  |  |  |  |
|            | 802.11n40-HT0   | 151     | 5755               | MCS0      | 17.50   | 17.27                     |  |  |  |  |
|            | 002.111140-1110 | 159     | 5795               | MCSU      | 17.50   | 17.32                     |  |  |  |  |
|            | 802.11ac40-VHT0 | 151     | 5755               | MCS0      | 17.50   | 17.20                     |  |  |  |  |
|            | 002.11a040-VH10 | 159     | 5795               | IVICSU    | 17.50   | 17.35                     |  |  |  |  |
|            | 802.11ax40-HE0  | 151     | 5755               | MCSO      | 17.00   | 16.72                     |  |  |  |  |
|            | 002.11ax40-f1E0 | 159     | 5795               | MCS0      | 17.00   | 16.72                     |  |  |  |  |
|            | 802.11ac80-VHT0 | 155     | 5775               | MCS0      | 15.00   | 14.83                     |  |  |  |  |
|            | 802.11ax80-HE0  | 155     | 5775               | MCS0      | 16.00   | 15.78                     |  |  |  |  |

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#### Aux

|              |                | Au      | x Antenna          |           |  |                           |
|--------------|----------------|---------|--------------------|-----------|--|---------------------------|
| Band         | Mode           | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |
|              |                | 1       | 2412               |           | 19.00  | 18.93                     |
|              |                | 6       | 2437               | 1         | 19.00  | 18.96                     |
|              | 802.11b        | 11      | 2462               | 1Mbps     | 19.00  | 18.83                     |
|              |                | 12      | 2467               |           | 15.00  | 14.98                     |
|              |                | 13      | 2472               |           | 9.00   | 8.94                      |
|              |                | 1       | 2412               |           | 16.50  | 16.41                     |
|              |                | 6       | 2437               | ]         | 18.50  | 18.40                     |
|              | 802.11g        | 11      | 2462               | 6Mbps     | 17.00  | 16.85                     |
|              |                | 12      | 2467               | ]         | 11.50  | 11.32                     |
|              |                | 13      | 2472               | 1         | 7.00   | 6.85                      |
|              |                | 1       | 2412               |           | 16.50  | 16.32                     |
|              |                | 6       | 2437               | 1         | 17.50  | 17.44                     |
|              | 802.11n20-HT0  | 11      | 2462               | MCS0      | 16.50  | 16.34                     |
|              |                | 12      | 2467               |           | 9.50   | 9.43                      |
| 2450 MHz     |                | 13      | 2472               |           | 5.50   | 5.45                      |
| 2430 IVII IZ |                | 1       | 2412               |           | 15.50  | 15.45                     |
|              |                | 6       | 2437               |           | 16.50  | 16.43                     |
|              | 802.11ax20-HE0 | 11      | 2462               | MCS0      | 14.50  | 14.38                     |
|              |                | 12      | 2467               |           | 9.00   | 8.84                      |
|              |                | 13      | 2472               |           | 6.50   | 6.46                      |
|              |                | 3       | 2422               |           | 14.50  | 14.34                     |
|              |                | 6       | 2437               |           | 15.50  | 15.50                     |
|              | 802.11n40-HT0  | 9       | 2452               | MCS0      | 14.50  | 14.44                     |
|              |                | 10      | 2457               |           | 8.00   | 7.95                      |
|              |                | 11      | 2462               | ]         | 6.00   | 5.97                      |
|              |                | 3       | 2422               |           | 13.50  | 13.47                     |
|              |                | 6       | 2437               | 1         | 14.50  | 14.50                     |
|              | 802.11ax40-HE0 | 9       | 2452               | MCS0      | 12.50  | 12.39                     |
|              |                | 10      | 2457               |           | 7.00   | 6.95                      |
|              |                | 11      | 2462               |           | 5.00   | 4.93                      |

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|               |                  | Aux     | Antenna            |           |   |                           |
|---------------|------------------|---------|--------------------|-----------|---|---------------------------|
| Band          | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|               |                  | 36      | 5180               |           | 15.00   | 14.98                     |
|               | 802.11a          | 40      | 5200               | 6Mbps     | 17.50   | 17.18                     |
|               | 002.11a          | 44      | 5220               | Glylbps   | 17.50   | 17.26                     |
|               |                  | 48      | 5240               |           | 17.50   | 17.31                     |
|               |                  | 36      | 5180               |           | 15.00   | 14.95                     |
|               | 802.11n20-HT0    | 40      | 5200               | MCS0      | 15.00   | 14.81                     |
|               |                  | 44      | 5220               | IVICOU    | 15.00   | 14.92                     |
|               |                  | 48      | 5240               |           | 15.00   | 14.91                     |
|               |                  | 36      | 5180               |           | 15.00   | 14.82                     |
|               | 802.11ac20-VHT0  | 40      | 5200               | MCS0      | 15.00   | 14.89                     |
|               | 002.110020 VIII0 | 44      | 5220               | INICOU    | 15.00   | 14.81                     |
| 5.15-5.25 GHz |                  | 48      | 5240               |           | 15.00   | 14.91                     |
| 3.13-3.23 GHZ |                  | 36      | 5180               |           | 15.00   | 14.87                     |
|               | 802.11ax20-HE0   | 40      | 5200               | MCS0      | 15.00   | 14.92                     |
|               | 002.11ax2011E0   | 44      | 5220               | ] WOOO    | 15.00   | 14.90                     |
|               |                  | 48      | 5240               |           | 15.00   | 14.95                     |
|               | 802.11n40-HT0    | 38      | 5190               | MCS0      | 14.50   | 14.45                     |
|               | 002.111140 1110  | 46      | 5230               | WOOO      | 14.50   | 14.41                     |
|               | 802.11ac40-VHT0  | 38      | 5190               | MCS0      | 14.50   | 14.33                     |
|               | 002.11d0+0 V1110 | 46      | 5230               | 10000     | 14.50   | 14.50                     |
|               | 802.11ax40-HE0   | 38      | 5190               | MCS0      | 14.00   | 13.87                     |
|               |                  | 46      | 5230               |           | 14.00   | 13.99                     |
|               | 802.11ac80-VHT0  | 42      | 5210               | MCS0      | 13.00   | 12.93                     |
|               | 802.11ax80-HE0   | 42      | 5210               | MCS0      | 13.00   | 13.00                     |

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|               |                  | Aux     | Antenna            |           |   |                           |
|---------------|------------------|---------|--------------------|-----------|---|---------------------------|
| Band          | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|               |                  | 52      | 5260               |           | 17.50   | 17.26                     |
|               | 802.11a          | 56      | 5280               | 6Mbps     | 17.50   | 17.36                     |
|               | 002.11a          | 60      | 5300               | Givibps   | 17.50   | 17.17                     |
|               |                  | 64      | 5320               |           | 15.50   | 15.28                     |
|               |                  | 52      | 5260               |           | 15.50   | 15.04                     |
|               | 802.11n20-HT0    | 56      | 5280               | MCS0      | 15.50   | 15.20                     |
|               | 002.111120-1110  | 60      | 5300               |           | 15.50   | 15.20                     |
|               |                  | 64      | 5320               |           | 15.50   | 15.13                     |
|               |                  | 52      | 5260               |           | 15.50   | 15.13                     |
|               | 802.11ac20-VHT0  | 56      | 5280               | MCS0      | 15.50   | 15.15                     |
|               | 002.11ac20-V1110 | 60      | 5300               |           | 15.50   | 15.04                     |
| 5.25-5.35 GHz |                  | 64      | 5320               |           | 15.50   | 15.01                     |
| 3.23-3.33 GHZ |                  | 52      | 5260               |           | 13.50   | 13.11                     |
|               | 802.11ax20-HE0   | 56      | 5280               | MCS0      | 13.50   | 13.13                     |
|               | 002.11ax20-11L0  | 60      | 5300               | IVICSU    | 13.50   | 13.14                     |
|               |                  | 64      | 5320               |           | 13.50   | 13.18                     |
|               | 802.11n40-HT0    | 54      | 5270               | MCS0      | 15.00   | 14.57                     |
|               | 002.111140-1110  | 62      | 5310               | IVICSO    | 15.00   | 14.69                     |
|               | 802.11ac40-VHT0  | 54      | 5270               | MCS0      | 15.00   | 14.63                     |
|               | 002.11ac40-V1110 | 62      | 5310               | MCSU      | 15.00   | 14.59                     |
|               | 802.11ax40-HE0   | 54      | 5270               | MCS0      | 14.00   | 13.69                     |
|               | 002.11ax40-11EU  | 62      | 5310               | IVICSU    | 14.00   | 13.51                     |
|               | 802.11ac80-VHT0  | 58      | 5290               | MCS0      | 10.50   | 10.07                     |
|               | 802.11ax80-HE0   | 58      | 5290               | MCS0      | 13.00   | 12.55                     |

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|          |                  | Aux     | Antenna            |           |  |                           |
|----------|------------------|---------|--------------------|-----------|--|---------------------------|
| Band     | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |
|          |                  | 100     | 5500               |           | 16.50  | 16.28                     |
|          |                  | 104     | 5520               | 1         | 17.50  | 17.16                     |
|          |                  | 116     | 5580               | ]         | 17.00  | 16.69                     |
|          | 802.11a          | 120     | 5600               | 6Mbps     | 17.50  | 17.28                     |
|          |                  | 136     | 5680               |           | 17.50  | 17.15                     |
|          |                  | 140     | 5700               |           | 17.50  | 17.32                     |
|          |                  | 144     | 5720               |           | 17.50  | 17.22                     |
|          |                  | 100     | 5500               |           | 16.50  | 16.03                     |
|          |                  | 104     | 5520               |           | 16.50  | 16.04                     |
|          |                  | 116     | 5580               |           | 16.50  | 16.05                     |
|          | 802.11n20-HT0    | 120     | 5600               | MCS0      | 16.50  | 16.16                     |
|          |                  | 136     | 5680               |           | 16.50  | 16.02                     |
|          |                  | 140     | 5700               |           | 16.50  | 16.13                     |
|          |                  | 144     | 5720               |           | 16.50  | 16.09                     |
|          |                  | 100     | 5500               |           | 16.50  | 16.09                     |
|          |                  | 104     | 5520               |           | 16.50  | 16.04                     |
|          |                  | 116     | 5580               |           | 16.50  | 16.03                     |
|          | 802.11ac20-VHT0  | 120     | 5600               | MCS0      | 16.50  | 16.10                     |
|          |                  | 136     | 5680               |           | 16.50  | 16.16                     |
|          |                  | 140     | 5700               |           | 16.50  | 16.04                     |
|          |                  | 144     | 5720               |           | 16.50  | 16.14                     |
|          |                  | 100     | 5500               |           | 13.50  | 13.15                     |
|          |                  | 104     | 5520               | MCS0      | 13.50  | 13.08                     |
|          |                  | 116     | 5580               |           | 13.50  | 13.08                     |
| 5600 MHz | 802.11ax20-HE0   | 120     | 5600               |           | 13.50  | 13.01                     |
|          |                  | 136     | 5680               |           | 13.50  | 13.19                     |
|          |                  | 140     | 5700               |           | 13.00  | 12.66                     |
|          |                  | 144     | 5720               |           | 13.50  | 13.03                     |
|          |                  | 102     | 5510               |           | 16.00  | 15.51                     |
|          |                  | 110     | 5550               |           | 16.50  | 16.19                     |
|          | 802.11n40-HT0    | 118     | 5590               | MCS0      | 16.50  | 16.06                     |
|          |                  | 134     | 5670               |           | 16.50  | 16.10                     |
|          |                  | 142     | 5710               | ļ         | 16.50  | 16.05                     |
|          |                  | 102     | 5510               | -         | 16.00  | 15.58                     |
|          | 000 110 10 1/150 | 110     | 5550               | MCCO      | 16.50  | 16.02                     |
|          | 802.11ac40-VHT0  | 118     | 5590<br>5670       | MCS0      | 16.50  | 16.11                     |
|          |                  | 134     | 5670<br>5710       | -         | 16.50  | 16.06                     |
|          |                  | 142     | 5710               |           | 16.50  | 16.13                     |
|          |                  | 102     | 5510               |           | 15.50  | 15.05                     |
|          | 000 116::40 1150 | 110     | 5550               | MCCC      | 16.50  | 16.03                     |
|          | 802.11ax40-HE0   | 118     | 5590               | MCS0      | 16.50  | 16.05                     |
|          |                  | 134     | 5670               | 4         | 16.50  | 16.04                     |
|          |                  | 142     | 5710               |           | 16.50  | 16.09                     |
|          | 902 110c90 \/UTO | 106     | 5530               | MCCO      | 9.00   | 8.54                      |
|          | 802.11ac80-VHT0  | 122     | 5610               | MCS0      | 9.00   | 8.52                      |
|          |                  | 138     | 5690               |           | 9.00   | 8.58                      |
| ı        | 902 11cv90 UE0   | 106     | 5530               | MCCO      | 13.50  | 13.18                     |
| ı        | 802.11ax80-HE0   | 122     | 5610               | MCS0      | 13.50  | 13.10                     |
|          |                  | 138     | 5690               | <u> </u>  | 13.50  | 13.13                     |

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|            |                 | Aux     | Antenna            |           |   |                           |
|------------|-----------------|---------|--------------------|-----------|---|---------------------------|
| Band       | Mode            | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|            |                 | 149     | 5745               |           | 19.50   | 19.21                     |
|            | 802.11a         | 157     | 5785               | 6Mbps     | 19.50   | 19.48                     |
|            |                 | 165     | 5825               |           | 19.50   | 19.45                     |
|            |                 | 149     | 5745               |           | 18.00   | 17.66                     |
|            | 802.11n20-HT0   | 157     | 5785               | MCS0      | 18.00   | 17.68                     |
|            |                 | 165     | 5825               |           | 18.00   | 17.75                     |
|            | 802.11ac20-VHT0 | 149     | 5745               | MCS0      | 18.00   | 17.67                     |
|            |                 | 157     | 5785               |           | 18.00   | 17.65                     |
|            |                 | 165     | 5825               |           | 18.00   | 17.61                     |
| 5800 MHz   |                 | 149     | 5745               |           | 17.00   | 16.65                     |
| 3600 IVITZ | 802.11ax20-HE0  | 157     | 5785               | MCS0      | 17.50   | 17.12                     |
|            |                 | 165     | 5825               |           | 17.50   | 17.18                     |
|            | 802.11n40-HT0   | 151     | 5755               | MCS0      | 16.50   | 16.20                     |
|            | 002.111140-1110 | 159     | 5795               | MCSU      | 17.00   | 16.79                     |
|            | 802.11ac40-VHT0 | 151     | 5755               | MCS0      | 16.50   | 16.14                     |
|            | 002.11ac40-VH10 | 159     | 5795               | IVICSU    | 17.00   | 16.71                     |
|            | 802.11ax40-HE0  | 151     | 5755               | MCSO      | 16.50   | 16.27                     |
|            | 002.11ax40-f1E0 | 159     | 5795               | MCS0      | 16.50   | 16.19                     |
|            | 802.11ac80-VHT0 | 155     | 5775               | MCS0      | 15.00   | 14.66                     |
|            | 802.11ax80-HE0  | 155     | 5775               | MCS0      | 15.50   | 15.23                     |

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#### **Tablet mode**

#### Main

|              |                | Mair    | n Antenna          |           |  |                           |
|--------------|----------------|---------|--------------------|-----------|--|---------------------------|
|              |                | I       |                    |           |  |                           |
| Band         | Mode           | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |
|              |                | 1       | 2412               |           | 16.00  | 15.95                     |
|              |                | 6       | 2437               | 1         | 16.00  | 15.97                     |
|              | 802.11b        | 11      | 2462               | 1Mbps     | 16.00  | 15.87                     |
|              |                | 12      | 2467               | 1         | 16.00  | 15.71                     |
|              |                | 13      | 2472               | 1         | 9.50   | 9.28                      |
|              |                | 1       | 2412               |           | 16.00  | 15.78                     |
|              |                | 6       | 2437               |           | 16.00  | 15.87                     |
|              | 802.11g        | 11      | 2462               | 6Mbps     | 16.00  | 15.79                     |
|              |                | 12      | 2467               |           | 12.00  | 11.76                     |
|              |                | 13      | 2472               | 1         | 7.50   | 7.19                      |
|              |                | 1       | 2412               |           | 16.00  | 15.70                     |
|              |                | 6       | 2437               | 1         | 16.00  | 15.83                     |
|              | 802.11n20-HT0  | 11      | 2462               | MCS0      | 16.00  | 15.77                     |
|              |                | 12      | 2467               |           | 10.00  | 9.78                      |
| 2450 MHz     |                | 13      | 2472               |           | 6.00   | 5.83                      |
| 2430 IVII IZ |                | 1       | 2412               |           | 16.00  | 15.82                     |
|              |                | 6       | 2437               | 1         | 16.00  | 15.81                     |
|              | 802.11ax20-HE0 | 11      | 2462               | MCS0      | 15.50  | 15.32                     |
|              |                | 12      | 2467               |           | 9.50   | 9.34                      |
|              |                | 13      | 2472               | 1         | 7.00   | 6.86                      |
|              |                | 3       | 2422               |           | 15.00  | 14.80                     |
|              |                | 6       | 2437               | ]         | 16.00  | 15.69                     |
|              | 802.11n40-HT0  | 9       | 2452               | MCS0      | 15.00  | 14.86                     |
|              |                | 10      | 2457               |           | 8.50   | 8.22                      |
|              |                | 11      | 2462               |           | 6.50   | 6.33                      |
|              |                | 3       | 2422               |           | 14.00  | 13.75                     |
|              |                | 6       | 2437               | MCS0      | 15.00  | 14.70                     |
|              | 802.11ax40-HE0 | 9       | 2452               |           | 14.00  | 13.85                     |
|              |                | 10      | 2457               |           | 7.50   | 7.31                      |
|              |                | 11      | 2462               |           | 5.50   | 5.19                      |

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|                |                               | Maii    | n Antenna          |           |   |                           |
|----------------|-------------------------------|---------|--------------------|-----------|---|---------------------------|
| Band           | Mode                          | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|                |                               | 36      | 5180               |           | 15.50   | 15.27                     |
|                | 802.11a                       | 40      | 5200               | 6Mbpc     | 18.00   | 17.83                     |
|                | 002.11a                       | 44      | 5220               | 6Mbps     | 18.00   | 17.98                     |
|                |                               | 48      | 5240               |           | 18.00   | 17.96                     |
|                |                               | 36      | 5180               |           | 15.50   | 15.31                     |
|                | 802.11n20-HT0                 | 40      | 5200               | MCS0      | 15.50   | 15.22                     |
|                | 002.111120-1110               | 44      | 5220               | - 10000   | 15.50   | 15.32                     |
|                |                               | 48      | 5240               |           | 15.50   | 15.27                     |
|                |                               | 36      | 5180               |           | 15.50   | 15.29                     |
|                | 802.11ac20-VHT0               | 40      | 5200               | MCS0      | 15.50   | 15.30                     |
|                | 002.11a020-V1110              | 44      | 5220               | IVICOU    | 15.50   | 15.32                     |
| 5.15-5.25 GHz  |                               | 48      | 5240               |           | 15.50   | 15.22                     |
| J. 13-3.23 GHZ |                               | 36      | 5180               |           | 15.50   | 15.21                     |
|                | 802.11ax20-HE0                | 40      | 5200               | MCS0      | 15.50   | 15.26                     |
|                | 002.11ax20-11L0               | 44      | 5220               | IVICOO    | 15.50   | 15.34                     |
|                |                               | 48      | 5240               |           | 15.50   | 15.24                     |
|                | 802.11n40-HT0                 | 38      | 5190               | MCS0      | 14.50   | 14.35                     |
|                | 002.111140-11110              | 46      | 5230               | WICCO     | 14.50   | 14.26                     |
|                | 802.11ac40-VHT0               | 38      | 5190               | MCS0      | 14.50   | 14.29                     |
|                | 002.11a0 <del>1</del> 0-11110 | 46      | 5230               | 101000    | 14.50   | 14.25                     |
|                | 802.11ax40-HE0                | 38      | 5190               | MCS0      | 14.50   | 14.23                     |
|                |                               | 46      | 5230               |           | 14.50   | 14.24                     |
|                | 802.11ac80-VHT0               | 42      | 5210               | MCS0      | 13.50   | 13.34                     |
|                | 802.11ax80-HE0                | 42      | 5210               | MCS0      | 13.50   | 13.33                     |

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|               |                               | Mai     | n Antenna          |           |   |                           |
|---------------|-------------------------------|---------|--------------------|-----------|---|---------------------------|
| Band          | Mode                          | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |
|               |                               | 52      | 5260               |           | 18.50   | 18.26                     |
|               | 802.11a                       | 56      | 5280               | 6Mbps     | 18.50   | 18.27                     |
|               | 002.11a                       | 60      | 5300               | Givibps   | 18.50   | 18.32                     |
|               |                               | 64      | 5320               |           | 15.50   | 15.47                     |
|               |                               | 52      | 5260               |           | 15.50   | 15.27                     |
|               | 802.11n20-HT0                 | 56      | 5280               | MCS0      | 15.50   | 15.29                     |
|               | 002.111120 1110               | 60      | 5300               | ""        | 15.50   | 15.20                     |
|               |                               | 64      | 5320               |           | 15.50   | 15.21                     |
|               |                               | 52      | 5260               |           | 15.50   | 15.36                     |
|               | 802.11ac20-VHT0               | 56      | 5280               | MCS0      | 15.50   | 15.35                     |
|               | 002.11ac20-V1110              | 60      | 5300               |           | 15.50   | 15.26                     |
| 5.25-5.35 GHz |                               | 64      | 5320               |           | 15.50   | 15.33                     |
| 3.23-3.33 GHZ |                               | 52      | 5260               |           | 13.50   | 13.20                     |
|               | 802.11ax20-HE0                | 56      | 5280               | MCS0      | 13.50   | 13.24                     |
|               | 002.11ax20-11L0               | 60      | 5300               | IVICOO    | 13.50   | 13.28                     |
|               |                               | 64      | 5320               |           | 13.50   | 13.32                     |
|               | 802.11n40-HT0                 | 54      | 5270               | MCS0      | 14.50   | 14.32                     |
|               | 002.111140-1110               | 62      | 5310               | 101000    | 14.50   | 14.21                     |
|               | 802.11ac40-VHT0               | 54      | 5270               | MCS0      | 14.50   | 14.28                     |
|               | 002.11a0 <del>1</del> 0-V1110 | 62      | 5310               | 101000    | 14.50   | 14.31                     |
|               | 802.11ax40-HE0                | 54      | 5270               | MCS0      | 14.50   | 14.35                     |
|               |                               | 62      | 5310               |           | 14.50   | 14.35                     |
|               | 802.11ac80-VHT0               | 58      | 5290               | MCS0      | 10.50   | 10.34                     |
|               | 802.11ax80-HE0                | 58      | 5290               | MCS0      | 13.50   | 13.36                     |

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| Main Antenna |                   |            |                    |           |  |                           |  |  |
|--------------|-------------------|------------|--------------------|-----------|--|---------------------------|--|--|
| Band         | Mode              | Channel    | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |  |  |
|              |                   | 100        | 5500               |           | 16.00  | 15.86                     |  |  |
|              |                   | 104        | 5520               | 1         | 17.50  | 17.34                     |  |  |
|              |                   | 116        | 5580               |           | 17.50  | 17.22                     |  |  |
|              | 802.11a           | 120        | 5600               | 6Mbps     | 17.50  | 17.21                     |  |  |
|              |                   | 136        | 5680               |           | 17.50  | 17.33                     |  |  |
|              |                   | 140        | 5700               |           | 17.50  | 17.48                     |  |  |
|              |                   | 144        | 5720               |           | 17.50  | 17.11                     |  |  |
|              |                   | 100        | 5500               |           | 17.00  | 16.85                     |  |  |
|              |                   | 104        | 5520               |           | 17.00  | 16.70                     |  |  |
|              |                   | 116        | 5580               |           | 17.00  | 16.69                     |  |  |
|              | 802.11n20-HT0     | 120        | 5600               | MCS0      | 17.00  | 16.86                     |  |  |
|              |                   | 136        | 5680               |           | 17.00  | 16.86                     |  |  |
|              |                   | 140        | 5700               |           | 17.00  | 16.74                     |  |  |
|              |                   | 144        | 5720               |           | 17.00  | 16.86                     |  |  |
|              |                   | 100        | 5500               |           | 17.00  | 16.69                     |  |  |
|              |                   | 104        | 5520               |           | 17.00  | 16.81                     |  |  |
|              |                   | 116        | 5580               |           | 17.00  | 16.74                     |  |  |
|              | 802.11ac20-VHT0   | 120        | 5600               | MCS0      | 17.00  | 16.76                     |  |  |
|              |                   | 136        | 5680               |           | 17.00  | 16.78                     |  |  |
|              |                   | 140        | 5700               |           | 17.00  | 16.85                     |  |  |
|              |                   | 144        | 5720               |           | 17.00  | 16.82                     |  |  |
|              |                   | 100        | 5500               |           | 12.50  | 12.28                     |  |  |
|              |                   | 104        | 5520               |           | 13.00  | 12.73                     |  |  |
| 5000 MILL-   | 000 44 5 200 1150 | 116        | 5580               | MCS0      | 13.00  | 12.85                     |  |  |
| 5600 MHz     | 802.11ax20-HE0    | 120        | 5600               |           | 13.00  | 12.87                     |  |  |
|              |                   | 136        | 5680               |           | 13.00  | 12.87                     |  |  |
|              |                   | 140<br>144 | 5700               | 1         | 13.00  | 12.74                     |  |  |
|              |                   | 102        | 5720<br>5510       |           | 13.00<br>16.50                                     | 12.86<br>16.18            |  |  |
|              |                   | 110        | 5550               | 1         |  | 16.16                     |  |  |
|              | 802.11n40-HT0     | 118        | 5590               | MCS0      | 16.50<br>16.50                                     | 16.31                     |  |  |
|              | 002.111140 1110   | 134        | 5670               | WICCO     | 16.50  | 16.28                     |  |  |
|              |                   | 142        | 5710               | 1         | 16.50  | 16.22                     |  |  |
|              |                   | 102        | 5510               |           | 16.50  | 16.30                     |  |  |
|              |                   | 110        | 5550               |           | 16.50  | 16.18                     |  |  |
|              | 802.11ac40-VHT0   | 118        | 5590               | MCS0      | 16.50  | 16.30                     |  |  |
|              |                   | 134        | 5670               |           | 16.50  | 16.29                     |  |  |
|              |                   | 142        | 5710               | 1         | 16.50  | 16.19                     |  |  |
|              |                   | 102        | 5510               |           | 16.00  | 15.73                     |  |  |
|              |                   | 110        | 5550               |           | 16.00  | 15.78                     |  |  |
|              | 802.11ax40-HE0    | 118        | 5590               | MCS0      | 16.00  | 15.75                     |  |  |
|              |                   | 134        | 5670               | 1         | 13.50  | 13.33                     |  |  |
|              |                   | 142        | 5710               | ]         | 16.00  | 15.86                     |  |  |
|              |                   | 106        | 5530               |           | 8.00   | 7.80                      |  |  |
|              | 802.11ac80-VHT0   | 122        | 5610               | MCS0      | 8.00   | 7.86                      |  |  |
|              |                   | 138        | 5690               | ]         | 8.00   | 7.77                      |  |  |
|              |                   | 106        | 5530               |           | 9.50   | 9.30                      |  |  |
|              | 802.11ax80-HE0    | 122        | 5610               | MCS0      | 9.50   | 9.32                      |  |  |
|              |                   | 138        | 5690               |           | 9.50   | 9.33                      |  |  |

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| Main Antenna |                              |         |                    |           |   |                           |  |  |  |
|--------------|------------------------------|---------|--------------------|-----------|---|---------------------------|--|--|--|
| Band         | Mode                         | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |  |
|              |                              | 149     | 5745               |           | 10.00   | 9.73                      |  |  |  |
|              | 802.11a                      | 157     | 5785               | 6Mbps     | 10.00   | 9.75                      |  |  |  |
|              |                              | 165     | 5825               | 1         | 10.00   | 9.90                      |  |  |  |
|              |                              | 149     | 5745               |           | 10.00   | 9.76                      |  |  |  |
|              | 802.11n20-HT0                | 157     | 5785               | MCS0      | 10.00   | 9.68                      |  |  |  |
|              |                              | 165     | 5825               |           | 10.00   | 9.81                      |  |  |  |
|              | 802.11ac20-VHT0              | 149     | 5745               | MCS0      | 10.00   | 9.79                      |  |  |  |
|              |                              | 157     | 5785               |           | 10.00   | 9.72                      |  |  |  |
|              |                              | 165     | 5825               |           | 10.00   | 9.80                      |  |  |  |
| 5800 MHz     |                              | 149     | 5745               |           | 10.00   | 9.74                      |  |  |  |
| 3600 IVITIZ  | 802.11ax20-HE0               | 157     | 5785               | MCS0      | 10.00   | 9.77                      |  |  |  |
|              |                              | 165     | 5825               |           | 10.00   | 9.68                      |  |  |  |
|              | 802.11n40-HT0                | 151     | 5755               | MCS0      | 10.00   | 9.83                      |  |  |  |
|              | 002.111 <del>14</del> 0-1110 | 159     | 5795               | MCSU      | 10.00   | 9.72                      |  |  |  |
|              | 902 11cc40 VUTO              | 151     | 5755               | MCS0      | 10.00   | 9.77                      |  |  |  |
|              | 802.11ac40-VHT0              | 159     | 5795               | IVICSU    | 10.00   | 9.85                      |  |  |  |
|              | 802.11ax40-HE0               | 151     | 5755               | MCS0      | 10.00   | 9.75                      |  |  |  |
|              | 002.11aX40-MEU               | 159     | 5795               |           | 10.00   | 9.82                      |  |  |  |
|              | 802.11ac80-VHT0              | 155     | 5775               | MCS0      | 10.00   | 9.69                      |  |  |  |
|              | 802.11ax80-HE0               | 155     | 5775               | MCS0      | 10.00   | 9.68                      |  |  |  |

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#### Aux

| Aux Antenna  |                |         |                    |           |  |                           |  |
|--------------|----------------|---------|--------------------|-----------|--|---------------------------|--|
| Band         | Mode           | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |  |
|              |                | 1       | 2412               |           | 17.00  | 16.82                     |  |
|              |                | 6       | 2437               |           | 17.00  | 16.94                     |  |
|              | 802.11b        | 11      | 2462               | 1Mbps     | 17.00  | 16.78                     |  |
|              |                | 12      | 2467               |           | 15.00  | 14.87                     |  |
|              |                | 13      | 2472               |           | 9.00   | 8.75                      |  |
|              |                | 1       | 2412               |           | 16.50  | 16.21                     |  |
|              |                | 6       | 2437               |           | 17.00  | 16.76                     |  |
|              | 802.11g        | 11      | 2462               | 6Mbps     | 17.00  | 16.80                     |  |
|              |                | 12      | 2467               |           | 11.50  | 11.33                     |  |
|              |                | 13      | 2472               |           | 7.00   | 6.70                      |  |
|              | 802.11n20-HT0  | 1       | 2412               | MCS0      | 16.50  | 16.30                     |  |
|              |                | 6       | 2437               |           | 17.00  | 16.75                     |  |
|              |                | 11      | 2462               |           | 16.50  | 16.31                     |  |
|              |                | 12      | 2467               |           | 9.50   | 9.34                      |  |
| 2450 MHz     |                | 13      | 2472               | 1         | 5.50   | 5.21                      |  |
| 2430 IVII IZ |                | 1       | 2412               | MCS0      | 15.50  | 15.20                     |  |
|              |                | 6       | 2437               |           | 16.50  | 16.22                     |  |
|              | 802.11ax20-HE0 | 11      | 2462               |           | 14.50  | 14.24                     |  |
|              |                | 12      | 2467               |           | 9.00   | 8.77                      |  |
|              |                | 13      | 2472               | 1         | 6.50   | 6.34                      |  |
|              |                | 3       | 2422               |           | 14.50  | 14.22                     |  |
|              |                | 6       | 2437               | 1         | 15.50  | 15.32                     |  |
|              | 802.11n40-HT0  | 9       | 2452               | MCS0      | 14.50  | 14.19                     |  |
|              |                | 10      | 2457               | 1         | 8.00   | 7.73                      |  |
|              |                | 11      | 2462               | <u> </u>  | 6.00   | 5.71                      |  |
|              |                | 3       | 2422               |           | 13.50  | 13.21                     |  |
|              |                | 6       | 2437               | MCS0      | 14.50  | 14.24                     |  |
|              | 802.11ax40-HE0 | 9       | 2452               |           | 13.50  | 13.32                     |  |
|              |                | 10      | 2457               |           | 7.00   | 6.79                      |  |
|              |                | 11      | 2462               |           | 5.00   | 4.76                      |  |

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| Aux Antenna   |                               |         |                    |           |   |                           |  |
|---------------|-------------------------------|---------|--------------------|-----------|---|---------------------------|--|
| Band          | Mode                          | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |
|               |                               | 36      | 5180               |           | 15.00   | 14.99                     |  |
|               | 802.11a                       | 40      | 5200               | 6Mbps     | 17.50   | 17.17                     |  |
|               | 002.11a                       | 44      | 5220               | Glylibhs  | 17.50   | 17.28                     |  |
|               |                               | 48      | 5240               |           | 17.50   | 17.22                     |  |
|               |                               | 36      | 5180               |           | 15.00   | 14.71                     |  |
|               | 802.11n20-HT0                 | 40      | 5200               | MCS0      | 15.00   | 14.86                     |  |
|               |                               | 44      | 5220               |           | 15.00   | 14.80                     |  |
|               |                               | 48      | 5240               |           | 15.00   | 14.74                     |  |
|               | 802.11ac20-VHT0               | 36      | 5180               |           | 15.00   | 14.87                     |  |
|               |                               | 40      | 5200               | MCS0      | 15.00   | 14.73                     |  |
|               |                               | 44      | 5220               |           | 15.00   | 14.84                     |  |
| 5.15-5.25 GHz |                               | 48      | 5240               |           | 15.00   | 14.86                     |  |
| 3.13-3.23 GHZ |                               | 36      | 5180               |           | 15.00   | 14.72                     |  |
|               | 802.11ax20-HE0                | 40      | 5200               | MCS0      | 15.00   | 14.87                     |  |
|               | 002.11ax20-11L0               | 44      | 5220               | IVICSO    | 15.00   | 14.68                     |  |
|               |                               | 48      | 5240               |           | 15.00   | 14.85                     |  |
|               | 802.11n40-HT0                 | 38      | 5190               | MCS0      | 14.50   | 14.24                     |  |
|               | 002.111140-11110              | 46      | 5230               | WICCO     | 14.50   | 14.29                     |  |
|               | 802.11ac40-VHT0               | 38      | 5190               | MCS0      | 14.50   | 14.34                     |  |
|               | 002.11a0 <del>1</del> 0-V1110 | 46      | 5230               | 101000    | 14.50   | 14.30                     |  |
|               | 802.11ax40-HE0                | 38      | 5190               | MCS0      | 14.00   | 13.70                     |  |
|               | 002.11ax40-11L0               | 46      | 5230               |           | 14.00   | 13.74                     |  |
|               | 802.11ac80-VHT0               | 42      | 5210               | MCS0      | 13.00   | 12.77                     |  |
|               | 802.11ax80-HE0                | 42      | 5210               | MCS0      | 13.00   | 12.85                     |  |

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| Aux Antenna    |                  |         |                    |           |   |                           |  |  |
|----------------|------------------|---------|--------------------|-----------|---|---------------------------|--|--|
| Band           | Mode             | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |
|                |                  | 52      | 5260               |           | 18.50   | 18.36                     |  |  |
|                | 802.11a          | 56      | 5280               | 6Mbps     | 18.50   | 18.47                     |  |  |
|                | 802.TTa          | 60      | 5300               | Givibps   | 18.50   | 18.25                     |  |  |
|                |                  | 64      | 5320               |           | 15.50   | 15.28                     |  |  |
|                |                  | 52      | 5260               |           | 15.50   | 15.23                     |  |  |
|                | 802.11n20-HT0    | 56      | 5280               | MCS0      | 15.50   | 15.37                     |  |  |
|                |                  | 60      | 5300               |           | 15.50   | 15.29                     |  |  |
|                |                  | 64      | 5320               |           | 15.50   | 15.35                     |  |  |
|                | 802.11ac20-VHT0  | 52      | 5260               | MCS0      | 15.50   | 15.28                     |  |  |
|                |                  | 56      | 5280               |           | 15.50   | 15.24                     |  |  |
|                |                  | 60      | 5300               |           | 15.50   | 15.34                     |  |  |
| 5.25-5.35 GHz  |                  | 64      | 5320               |           | 15.50   | 15.24                     |  |  |
| 0.20-0.00 0112 | 802.11ax20-HE0   | 52      | 5260               |           | 13.50   | 13.34                     |  |  |
|                |                  | 56      | 5280               | MCS0      | 13.50   | 13.30                     |  |  |
|                | 002.11ax20-11L0  | 60      | 5300               | IVICOU    | 13.50   | 13.31                     |  |  |
|                |                  | 64      | 5320               |           | 13.50   | 13.24                     |  |  |
|                | 802.11n40-HT0    | 54      | 5270               | MCS0      | 15.00   | 14.71                     |  |  |
|                | 002.111140-1110  | 62      | 5310               | MCSO      | 15.00   | 14.74                     |  |  |
|                | 802.11ac40-VHT0  | 54      | 5270               | MCS0      | 15.00   | 14.73                     |  |  |
|                | 002.11a040-V1110 | 62      | 5310               | IVICOU    | 15.00   | 14.87                     |  |  |
|                | 802.11ax40-HE0   | 54      | 5270               | MCS0      | 14.00   | 13.71                     |  |  |
|                |                  | 62      | 5310               |           | 14.00   | 13.70                     |  |  |
|                | 802.11ac80-VHT0  | 58      | 5290               | MCS0      | 10.50   | 10.34                     |  |  |
|                | 802.11ax80-HE0   | 58      | 5290               | MCS0      | 13.00   | 12.68                     |  |  |

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| Aux Antenna |                 |            |                    |           |  |                           |
|-------------|-----------------|------------|--------------------|-----------|--|---------------------------|
| Band        | Mode            | Channel    | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Average<br>power<br>(dBm) |
|             |                 | 100        | 5500               |           | 13.00  | 12.81                     |
|             |                 | 104        | 5520               |           | 13.00  | 12.70                     |
|             |                 | 116        | 5580               |           | 13.00  | 12.86                     |
|             | 802.11a         | 120        | 5600               | 6Mbps     | 13.00  | 12.78                     |
|             |                 | 136        | 5680               |           | 13.00  | 12.70                     |
|             |                 | 140        | 5700               |           | 13.00  | 12.99                     |
|             |                 | 144        | 5720               |           | 13.00  | 12.71                     |
|             |                 | 100        | 5500               |           | 13.00  | 12.83                     |
|             |                 | 104        | 5520               |           | 13.00  | 12.86                     |
|             |                 | 116        | 5580               |           | 13.00  | 12.72                     |
|             | 802.11n20-HT0   | 120        | 5600               | MCS0      | 13.00  | 12.81                     |
|             |                 | 136        | 5680               |           | 13.00  | 12.84                     |
|             |                 | 140        | 5700               |           | 13.00  | 12.81                     |
|             |                 | 144        | 5720               |           | 13.00  | 12.77                     |
|             |                 | 100        | 5500               |           | 13.00  | 12.82                     |
|             | 802.11ac20-VHT0 | 104        | 5520               | MCS0      | 13.00  | 12.82                     |
|             |                 | 116        | 5580               |           | 13.00  | 12.74                     |
|             |                 | 120        | 5600               |           | 13.00  | 12.71                     |
|             |                 | 136        | 5680               |           | 13.00  | 12.77                     |
|             |                 | 140        | 5700               | 4         | 13.00  | 12.68                     |
|             |                 | 144        | 5720               |           | 13.00  | 12.86                     |
|             | 000 4400 1150   | 100        | 5500               | MCS0      | 11.50  | 11.21                     |
|             |                 | 104        | 5520               |           | 12.50  | 12.29                     |
| 5600 MHz    |                 | 116        | 5580               |           | 12.50  | 12.27                     |
| 3000 IVITZ  | 802.11ax20-HE0  | 120        | 5600               |           | 12.50  | 12.36                     |
|             |                 | 136        | 5680               |           | 12.50  | 12.25                     |
|             |                 | 140<br>144 | 5700<br>5720       | 1         | 12.50<br>12.50                                     | 12.30<br>12.31            |
|             |                 | 102        | 5510               |           | 13.00  | 12.83                     |
|             |                 | 110        | 5550               |           | 13.00  | 12.68                     |
|             | 802.11n40-HT0   | 118        | 5590               | MCS0      | 13.00  | 12.68                     |
|             | 002.111140 1110 | 134        | 5670               | Wicco     | 13.00  | 12.68                     |
|             |                 | 142        | 5710               |           | 13.00  | 12.72                     |
|             |                 | 102        | 5510               |           | 13.00  | 12.72                     |
|             |                 | 110        | 5550               | 1         | 13.00  | 12.72                     |
|             | 802.11ac40-VHT0 | 118        | 5590               | MCS0      | 13.00  | 12.71                     |
|             |                 | 134        | 5670               | 1         | 13.00  | 12.70                     |
|             |                 | 142        | 5710               | 1         | 13.00  | 12.78                     |
|             |                 | 102        | 5510               |           | 13.00  | 12.80                     |
|             |                 | 110        | 5550               | 1         | 13.00  | 12.68                     |
|             | 802.11ax40-HE0  | 118        | 5590               | MCS0      | 13.00  | 12.70                     |
|             |                 | 134        | 5670               | 1         | 13.00  | 12.87                     |
|             |                 | 142        | 5710               |           | 13.00  | 12.70                     |
|             |                 | 106        | 5530               |           | 7.00   | 6.69                      |
|             | 802.11ac80-VHT0 | 122        | 5610               | MCS0      | 7.00   | 6.72                      |
|             |                 | 138        | 5690               | 1         | 7.00   | 6.79                      |
|             |                 | 106        | 5530               |           | 9.00   | 8.70                      |
|             | 802.11ax80-HE0  | 122        | 5610               | MCS0      | 9.00   | 8.76                      |
|             |                 | 138        | 5690               |           | 9.00   | 8.84                      |

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| Aux Antenna |                 |         |                    |           |   |                           |  |  |
|-------------|-----------------|---------|--------------------|-----------|---|---------------------------|--|--|
| Band        | Mode            | Channel | Frequency<br>(MHz) | Data Rate | Max. Rated Avg.<br>Power + Max.<br>Tolerance<br>(dBm) | Average<br>power<br>(dBm) |  |  |
|             |                 | 149     | 5745               |           | 10.50   | 9.94                      |  |  |
|             | 802.11a         | 157     | 5785               | 6Mbps     | 10.50   | 9.98                      |  |  |
|             |                 | 165     | 5825               |           | 10.50   | 9.86                      |  |  |
|             |                 | 149     | 5745               |           | 10.50   | 10.37                     |  |  |
|             | 802.11n20-HT0   | 157     | 5785               | MCS0      | 10.50   | 10.21                     |  |  |
|             |                 | 165     | 5825               |           | 10.50   | 10.36                     |  |  |
|             | 802.11ac20-VHT0 | 149     | 5745               | MCS0      | 10.50   | 10.23                     |  |  |
|             |                 | 157     | 5785               |           | 10.50   | 10.31                     |  |  |
|             |                 | 165     | 5825               |           | 10.50   | 10.29                     |  |  |
| 5800 MHz    | 802.11ax20-HE0  | 149     | 5745               |           | 10.50   | 10.27                     |  |  |
| 3600 IVITZ  |                 | 157     | 5785               | MCS0      | 10.50   | 10.35                     |  |  |
|             |                 | 165     | 5825               |           | 10.50   | 10.18                     |  |  |
|             | 802.11n40-HT0   | 151     | 5755               | MCS0      | 10.50   | 10.35                     |  |  |
|             | 002.111140-1110 | 159     | 5795               | MCSU      | 10.50   | 10.22                     |  |  |
|             | 802.11ac40-VHT0 | 151     | 5755               | MCS0      | 10.50   | 10.23                     |  |  |
|             | 002.11a040-VH10 | 159     | 5795               | IVICSU    | 10.50   | 10.29                     |  |  |
|             | 802.11ax40-HE0  | 151     | 5755               | MCS0      | 10.50   | 10.21                     |  |  |
|             |                 | 159     | 5795               | IVICSU    | 10.50   | 10.24                     |  |  |
|             | 802.11ac80-VHT0 | 155     | 5775               | MCS0      | 10.50   | 10.32                     |  |  |
|             | 802.11ax80-HE0  | 155     | 5775               | MCS0      | 10.50   | 10.26                     |  |  |

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# Bluetooth conducted power table:

| Diagraphic Constants por table. |         |                    |            |         |            |         |            |         |
|---------------------------------|---------|--------------------|------------|---------|------------|---------|------------|---------|
|                                 |         |                    | 1Mbps      |         | 2Mbps      |         | 3Mbps      |         |
|                                 |         | -                  | Max. Rated |         | Max. Rated |         | Max. Rated |         |
| Mode                            | Channel | Frequency<br>(MHz) | Avg. Power | Average | Avg. Power | Average | Avg. Power | Average |
|                                 |         | (1011 12)          | + Max.     | power   | + Max.     | power   | + Max.     | power   |
|                                 |         |                    | Tolerance  | (dBm)   | Tolerance  | (dBm)   | Tolerance  | (dBm)   |
|                                 |         |                    | (dBm)      |         | (dBm)      |         | (dBm)      |         |
|                                 | CH 00   | 2402               | 11.50      | 10.90   | 8.50       | 8.33    | 8.50       | 8.41    |
| BR/EDR                          | CH 39   | 2441               | 11.50      | 11.43   | 8.50       | 7.71    | 8.50       | 7.74    |
|                                 | CH 78   | 2480               | 11.50      | 11.40   | 8.50       | 6.70    | 8.50       | 6.67    |

| Mode   | Mode Channel Frequenc |       | GFS   | SK                         |
|--------|-----------------------|-------|---|----------------------------|
| iviode | Chamilei              | (MHz) | Max. Rated Avg.Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
|        | CH 00                 | 2402  | 11.50                                       | 11.45                      |
| LE_1M  | CH 19                 | 2440  | 11.50                                       | 10.90                      |
|        | CH 39                 | 2480  | 11.50                                       | 10.83                      |
|        | CH 00                 | 2402  | 11.50                                       | 10.60                      |
| LE_2M  | CH 19                 | 2440  | 11.50                                       | 11.01                      |
|        | CH 39                 | 2480  | 11.50                                       | 11.11                      |

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#### BT



Total time 3.744ms Operating time 2.888ms Duty cycle (2.888/3.744)×100%=77.1%

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Total time 8.790ms Operating time 8.385ms Duty cycle (8.350/8.790)×100%=95%

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#### 5G a



Total time 5.980ms Operating time 5.480ms Duty cycle (5.480/5.980)×100%=91.6%

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#### 1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

# 1.5 Operation Description

Use chipset specific software to control the EUT, and makes it transmit in maximum power. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

The device is a convertible laptop computer with RF feature. The device will adjust the maximum output power for different user scenario and EUT was tested as below based on KDB inquiry.

#### **Tablet mode**

SAR is measured with back/edges \_0mm (reduced power)

#### Laptop mode

SAR is not required for this mode because the separation distance between the antennas and keyboard bottom surface is larger than 20cm.

#### Note:

802.11b DSSS SAR Test Requirements:

- 1. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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# 802.11g/n OFDM SAR Test Exclusion Requirements:

3. SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Initial Test Configuration:

- 4. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
- 5. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 6. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
- 7. BT and WLAN Aux use the same antenna path, but they can't transmit at the same time.
- 8. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.
- 9. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 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 ≥ 1.45 W/kg (~10% from the 1-g SAR limit)

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# 1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with predefined single fixed power to each device modes.

For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

| DUT operating mode | Lid Angle description   | WLAN TX state       |
|--------------------|-------------------------|---------------------|
| Lid-close          | 0° ≤ Lid angle < 1°     | No TX transmission  |
| Notebook           | 1° ≤ Lid angle < 340°   | Full Power Level    |
| Tablet             | 340° ≤ Lid angle ≤ 360° | Reduced Power Level |

#### 1.6.1 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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## Operating mode validation by power measurement

| Antenna | Operation mode<br>Lid close | Lid angle<br>0° | 802.11b<br>n/a | 802.11a 5.2G<br>n/a | 802.11a 5.3G<br>n/a | 802.11a 5.6G<br>n/a | 802.11a 5.8G<br>n/a |
|---------|-----------------------------|-----------------|----------------|---------------------|---------------------|---------------------|---------------------|
|         | Laptop                      | 10°             | 18.41          | 17.36               | 17.46               | 17.47               | 19.92               |
|         | Lid close                   | 5°<br>0°        | 18.48<br>n/a   | 17.33<br>n/a        | 17.36<br>n/a        | 17.35<br>n/a        | 19.89<br>n/a        |
|         |                             | 1°              | 18.31          | 17.50               | 17.39               | 17.47               | 19.99               |
|         |                             | 2°<br>3°        | 18.33<br>18.36 | 17.44<br>17.39      | 17.40<br>17.49      | 17.31<br>17.34      | 19.94<br>19.94      |
|         |                             | 4°              | 18.47          | 17.41               | 17.49               | 17.34               | 20.00               |
|         |                             | 5°              | 18.36          | 17.49               | 17.45               | 17.48               | 20.00               |
|         |                             | 15°<br>25°      | 18.49<br>18.32 | 17.32<br>17.41      | 17.49<br>17.46      | 17.35<br>17.34      | 19.95<br>19.96      |
|         |                             | 35°             | 18.46          | 17.37               | 17.50               | 17.47               | 20.00               |
|         |                             | 45°             | 18.34          | 17.38               | 17.47               | 17.38               | 19.85               |
|         |                             | 55°<br>65°      | 18.32<br>18.31 | 17.43<br>17.35      | 17.42<br>17.50      | 17.37<br>17.32      | 19.83<br>19.95      |
|         |                             | 75°             | 18.43          | 17.35               | 17.40               | 17.47               | 19.96               |
|         |                             | 85°             | 18.44          | 17.31               | 17.42               | 17.42               | 19.88               |
|         |                             | 95°<br>105°     | 18.35<br>18.43 | 17.49<br>17.39      | 17.34<br>17.35      | 17.43<br>17.34      | 19.82<br>19.88      |
|         |                             | 115°            | 18.35          | 17.39               | 17.39               | 17.44               | 19.87               |
|         |                             | 125°            | 18.35          | 17.31               | 17.39               | 17.44               | 19.88               |
|         |                             | 135°<br>145°    | 18.40<br>18.45 | 17.50<br>17.50      | 17.35<br>17.42      | 17.31<br>17.41      | 19.91<br>19.93      |
|         | Laptop                      | 155°            | 18.45          | 17.34               | 17.48               | 17.46               | 19.88               |
|         |                             | 165°            | 18.34          | 17.32               | 17.40               | 17.31               | 19.81               |
|         |                             | 175°<br>185°    | 18.45<br>18.41 | 17.32<br>17.37      | 17.37<br>17.45      | 17.34<br>17.34      | 19.98<br>19.92      |
|         |                             | 195°            | 18.49          | 17.32               | 17.43               | 17.47               | 19.86               |
|         | 1                           | 205°            | 18.48          | 17.50               | 17.47               | 17.31               | 19.91               |
|         | 1                           | 215°            | 18.45          | 17.34               | 17.42               | 17.38               | 19.84               |
|         | 1                           | 225°<br>235°    | 18.44<br>18.50 | 17.33<br>17.48      | 17.34<br>17.48      | 17.44<br>17.40      | 19.93<br>19.98      |
|         | 1                           | 245°            | 18.47          | 17.39               | 17.31               | 17.44               | 19.83               |
|         | 1                           | 255°            | 18.49          | 17.38               | 17.45               | 17.34               | 19.86               |
|         | 1                           | 265°<br>275°    | 18.37<br>18.45 | 17.41<br>17.44      | 17.35<br>17.35      | 17.37<br>17.33      | 19.85<br>19.94      |
|         | 1                           | 285°            | 18.48          | 17.34               | 17.39               | 17.45               | 19.92               |
|         | 1                           | 295°            | 18.43          | 17.40               | 17.36               | 17.49               | 19.99               |
|         | 1                           | 305°<br>315°    | 18.38<br>18.42 | 17.40<br>17.42      | 17.46<br>17.48      | 17.46<br>17.46      | 19.96<br>20.00      |
|         |                             | 325°            | 18.34          | 17.38               | 17.32               | 17.47               | 19.82               |
|         |                             | 335°            | 18.50          | 17.45               | 17.43               | 17.34               | 19.98               |
|         | Tablet<br>Laptop            | 345°<br>340°    | 15.83<br>18.35 | 17.88<br>17.47      | 18.46<br>17.36      | 17.50<br>17.50      | 9.87<br>19.84       |
|         |                             | 341°            | 15.95          | 17.81               | 18.38               | 17.34               | 9.88                |
|         |                             | 342°            | 15.90          | 17.91               | 18.48               | 17.31               | 9.96                |
|         |                             | 343°<br>344°    | 15.92<br>15.84 | 17.99<br>17.96      | 18.44<br>18.42      | 17.46<br>17.39      | 9.94<br>10.00       |
|         | Tablet                      | 345°            | 15.90          | 17.86               | 18.45               | 17.31               | 9.86                |
|         |                             | 355°            | 15.87          | 18.00               | 18.36               | 17.44               | 9.85                |
|         |                             | 360°            | 15.98<br>15.85 | 17.93<br>17.92      | 18.40<br>18.46      | 17.36<br>17.33      | 9.94<br>9.84        |
| Main    | Laptop                      | 340°            | 18.32          | 17.39               | 17.47               | 17.45               | 19.92               |
|         |                             | 345°            | 15.95          | 17.91               | 18.44               | 17.43               | 9.96                |
|         | Tablet                      | 344°<br>343°    | 15.86<br>15.86 | 17.85<br>17.86      | 18.40<br>18.48      | 17.31<br>17.32      | 9.98<br>9.89        |
|         | 1.22.21                     | 342°            | 15.87          | 17.88               | 18.47               | 17.39               | 9.99                |
|         |                             | 341°            | 15.93          | 17.98               | 18.43               | 17.35               | 9.98                |
|         |                             | 340°<br>339°    | 18.47<br>18.48 | 17.33<br>17.34      | 17.32<br>17.38      | 17.47<br>17.41      | 19.91<br>20.00      |
|         |                             | 338°            | 18.47          | 17.37               | 17.43               | 17.38               | 19.91               |
|         | 1                           | 337°<br>336°    | 18.39<br>18.32 | 17.33<br>17.43      | 17.48<br>17.39      | 17.35<br>17.33      | 19.98<br>19.96      |
|         |                             | 335°            | 18.32          | 17.43               | 17.35               | 17.33               | 19.96               |
|         |                             | 325°            | 18.37          | 17.33               | 17.33               | 17.40               | 19.82               |
|         | 1                           | 315°            | 18.45          | 17.46               | 17.40               | 17.41               | 19.81               |
|         | 1                           | 305°<br>295°    | 18.31<br>18.44 | 17.38<br>17.41      | 17.44<br>17.42      | 17.41<br>17.39      | 19.93<br>19.96      |
|         | 1                           | 285°            | 18.37          | 17.37               | 17.38               | 17.45               | 19.96               |
|         | 1                           | 275°<br>265°    | 18.34<br>18.32 | 17.48<br>17.34      | 17.44<br>17.50      | 17.48<br>17.31      | 19.94<br>19.83      |
|         | 1                           | 265°<br>255°    | 18.32<br>18.33 | 17.34<br>17.46      | 17.50<br>17.33      | 17.31<br>17.38      | 19.83<br>19.98      |
|         | 1                           | 245°            | 18.33          | 17.38               | 17.38               | 17.50               | 19.87               |
|         | 1                           | 235°<br>225°    | 18.31<br>18.45 | 17.36<br>17.46      | 17.34<br>17.36      | 17.37<br>17.44      | 19.89<br>19.89      |
|         | 1                           | 225°<br>215°    | 18.45<br>18.50 | 17.46               | 17.36<br>17.36      | 17.44               | 19.89<br>19.96      |
|         | 1                           | 205°            | 18.48          | 17.39               | 17.35               | 17.46               | 19.88               |
|         | Laptop                      | 195°<br>185°    | 18.43<br>18.47 | 17.49<br>17.48      | 17.47<br>17.41      | 17.44<br>17.36      | 19.92<br>19.89      |
|         |                             | 185°<br>175°    | 18.43          | 17.48               | 17.41<br>17.46      | 17.36               | 19.89<br>19.86      |
|         |                             | 165°            | 18.35          | 17.34               | 17.35               | 17.33               | 19.83               |
|         | 1                           | 155°            | 18.39          | 17.38               | 17.32               | 17.39               | 19.88               |
|         | 1                           | 145°<br>135°    | 18.33<br>18.31 | 17.33<br>17.31      | 17.36<br>17.31      | 17.48<br>17.32      | 19.88<br>19.86      |
|         | 1                           | 125°            | 18.44          | 17.34               | 17.47               | 17.32               | 19.81               |
|         | 1                           | 115°            | 18.42          | 17.48               | 17.36               | 17.40               | 19.90               |
|         | 1                           | 105°<br>95°     | 18.45<br>18.35 | 17.44               | 17.49               | 17.31               | 19.81<br>19.90      |
|         | 1                           | 95°<br>85°      | 18.35<br>18.49 | 17.50<br>17.48      | 17.38<br>17.33      | 17.33<br>17.46      | 19.90<br>19.91      |
|         | 1                           | 75°             | 18.37          | 17.33               | 17.36               | 17.48               | 20.00               |
|         | 1                           | 65°             | 18.41          | 17.37               | 17.37               | 17.38               | 19.97               |
|         | 1                           | 55°             | 18.32          | 17.48               | 17.39               | 17.44               | 19.94               |
|         | 1                           | 45°<br>35°      | 18.41<br>18.46 | 17.35<br>17.35      | 17.48<br>17.37      | 17.31<br>17.43      | 19.88<br>19.98      |
|         |                             | 25°             | 18.35          | 17.50               | 17.49               | 17.37               | 20.00               |
|         | 1                           | 15°             | 18.37          | 17.49               | 17.41               | 17.31               | 19.99               |
|         | L                           | 5°              | 18.46          | 17.46               | 17.41               | 17.48               | 19.94               |
|         | Lid close                   | 0°<br>5°        | n/a<br>18.39   | n/a<br>17.37        | n/a<br>17.46        | n/a<br>17.40        | n/a<br>19.87        |
|         | 1                           | 4°              | 18.39<br>18.49 | 17.37               | 17.46<br>17.49      | 17.40               | 19.87               |
|         | Lanton                      |                 | 18.38          | 17.36               | 17.47               | 17.39               | 19.91               |
|         | Laptop                      | 3°              |                |                     |                     |                     |                     |
|         | Laptop                      | 2°<br>1°        | 18.48<br>18.45 | 17.31<br>17.39      | 17.37<br>17.40      | 17.31<br>17.33      | 19.84<br>19.94      |

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|     | Operation mode    | Lid angle<br>0°  | 802.11b   | 802.11a 5.2G  | 802.11a 5.3G  | 802.11a 5.6G  | 802.11a 5.8G  |
|-----|-------------------|--|---|---|---|---|---|
|     | Lid close         | 0°<br>10°  | n/a<br>18.99  | n/a<br>17.47  | n/a<br>17.50  | n/a<br>17.43  | n/a<br>19.49  |
|     | Laptop            | 5°   | 18.88   | 17.47   | 17.40   | 17.43   | 19.49   |
|     | Lid close         | 0°   | n/a   | n/a   | n/a   | n/a   | n/a   |
|     |                   | 1°   | 18.82   | 17.47   | 17.49   | 17.42   | 19.41   |
|     |                   | 2°   | 18.89   | 17.45   | 17.38   | 17.45   | 19.35   |
|     |                   | 3°   | 18.88   | 17.33   | 17.39   | 17.40   | 19.39   |
|     |                   | 4°<br>5°   | 18.81<br>18.94  | 17.37<br>17.37  | 17.35<br>17.47  | 17.42<br>17.39  | 19.45<br>19.47  |
|     |                   | 15°  | 18.89   | 17.31   | 17.46   | 17.47   | 19.33   |
|     |                   | 25°  | 18.83   | 17.42   | 17.37   | 17.43   | 19.38   |
|     |                   | 35°  | 18.98   | 17.42   | 17.40   | 17.38   | 19.45   |
|     |                   | 45°  | 18.82   | 17.46   | 17.42   | 17.43   | 19.48   |
|     |                   | 55°  | 18.93   | 17.36   | 17.32   | 17.43   | 19.33   |
|     |                   | 65°<br>75°   | 18.84<br>18.82  | 17.38<br>17.46  | 17.43<br>17.41  | 17.45<br>17.32  | 19.36<br>19.35  |
|     |                   | 85°  | 18.81   | 17.37   | 17.32   | 17.35   | 19.45   |
|     |                   | 95°  | 18.88   | 17.35   | 17.50   | 17.42   | 19.36   |
|     |                   | 105°   | 18.86   | 17.48   | 17.38   | 17.45   | 19.43   |
|     |                   | 115°   | 18.91   | 17.44   | 17.36   | 17.47   | 19.49   |
|     |                   | 125°   | 18.88   | 17.39   | 17.49   | 17.47   | 19.47   |
|     |                   | 135°<br>145°   | 18.96<br>18.84  | 17.40<br>17.41  | 17.47<br>17.34  | 17.36<br>17.34  | 19.40<br>19.47  |
|     | Laptop            | 155°   | 18.86   | 17.47   | 17.48   | 17.31   | 19.38   |
|     |                   | 165°   | 18.84   | 17.50   | 17.34   | 17.47   | 19.35   |
|     |                   | 175°   | 18.88   | 17.47   | 17.38   | 17.40   | 19.43   |
|     |                   | 185°   | 18.95   | 17.50   | 17.33   | 17.40   | 19.33   |
|     |                   | 195°   | 18.92   | 17.41   | 17.36   | 17.39   | 19.50   |
|     | 1 [               | 205°   | 18.85   | 17.46   | 17.50   | 17.47   | 19.44   |
|     |                   | 215°   | 18.91   | 17.34   | 17.47   | 17.47   | 19.40   |
|     | 1                 | 225°<br>235°   | 18.90<br>18.95  | 17.40<br>17.42  | 17.41<br>17.46  | 17.32<br>17.48  | 19.47<br>19.47  |
|     |                   | 235°<br>245°   | 18.95   | 17.42   | 17.46   | 17.48   | 19.47   |
|     |                   | 255°   | 18.94   | 17.36   | 17.50   | 17.42   | 19.38   |
|     | 1                 | 265°   | 18.91   | 17.45   | 17.47   | 17.39   | 19.43   |
|     | 1                 | 275°   | 18.95   | 17.46   | 17.50   | 17.40   | 19.37   |
|     | ı E               | 285°   | 18.83   | 17.40   | 17.44   | 17.50   | 19.49   |
|     | [                 | 295°   | 18.82   | 17.31   | 17.37   | 17.43   | 19.39   |
|     |                   | 305°   | 18.95   | 17.45   | 17.34   | 17.34   | 19.40   |
|     |                   | 315°<br>325°   | 19.00<br>18.82  | 17.37<br>17.34  | 17.44<br>17.50  | 17.31<br>17.42  | 19.49<br>19.42  |
|     |                   | 335°   | 18.86   | 17.44   | 17.39   | 17.46   | 19.42   |
|     | Tablet            | 345°   | 16.87   | 17.31   | 18.34   | 12.92   | 10.50   |
|     | Laptop            | 340°   | 18.87   | 17.31   | 17.31   | 17.50   | 19.45   |
|     |                   | 341°   | 16.83   | 17.43   | 18.38   | 12.93   | 10.48   |
|     |                   | 342°   | 16.89   | 17.37   | 18.38   | 12.96   | 10.45   |
|     |                   | 343°   | 16.88   | 17.40   | 18.45   | 12.91   | 10.45   |
|     | Tablet            | 344°   | 16.88   | 17.47   | 18.36   | 12.97   | 10.36   |
|     |                   | 345°<br>355°   | 16.98<br>16.87  | 17.36<br>17.31  | 18.45<br>18.31  | 12.97<br>12.94  | 10.38<br>10.39  |
|     |                   | 360°   | 16.82   | 17.47   | 18.45   | 12.90   | 10.34   |
|     |                   | 350°   | 16.94   | 17.41   | 18.39   | 12.99   | 10.38   |
| Aux | Laptop            | 340°   | 18.97   | 17.32   | 17.39   | 17.43   | 19.37   |
|     |                   | 345°   | 16.91   | 17.47   | 18.31   | 12.83   | 10.40   |
|     |                   | 344°   | 16.90   | 17.47   | 18.45   | 12.96   | 10.43   |
|     | Tablet            | 343°<br>342°   | 17.00<br>16.91  | 17.32<br>17.45  | 18.40<br>18.40  | 12.81<br>12.85  | 10.42<br>10.50  |
|     | -                 | 342°   | 16.95   | 17.43   | 18.33   | 12.85   | 10.33   |
|     |                   | 340°   | 18.95   | 17.43   | 17.33   | 17.49   | 19.34   |
|     |                   |  |   | 17.47   | 17.43   | 17.45   | 19.48   |
|     |                   | 339°   | 18.86   |   |   |   |   |
|     |                   | 338°   | 18.86   | 17.49   | 17.40   | 17.45   | 19.41   |
|     |                   |  |   | 17.49<br>17.46  |   |   |   |
|     |                   | 338°<br>337°<br>336°   | 18.98<br>18.93<br>18.87   | 17.46<br>17.46  | 17.40<br>17.41<br>17.36   | 17.46<br>17.44<br>17.40   | 19.41<br>19.44<br>19.39   |
|     |                   | 338°<br>337°<br>336°<br>335°   | 18.98<br>18.93<br>18.87<br>18.93  | 17.46<br>17.46<br>17.45   | 17.40<br>17.41<br>17.36<br>17.48  | 17.46<br>17.44<br>17.40<br>17.45  | 19.41<br>19.44<br>19.39<br>19.50  |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°   | 18.98<br>18.93<br>18.87<br>18.93<br>18.85   | 17.46<br>17.46<br>17.45<br>17.47  | 17.40<br>17.41<br>17.36<br>17.48<br>17.47   | 17.46<br>17.44<br>17.40<br>17.45<br>17.42   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32   |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°   | 18.98<br>18.93<br>18.87<br>18.93<br>18.85<br>18.92  | 17.46<br>17.46<br>17.45<br>17.47<br>17.43   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36  | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36  |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°   | 18.98<br>18.93<br>18.87<br>18.93<br>18.85<br>18.85  | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33  | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39   |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°   | 18.98<br>18.93<br>18.87<br>18.93<br>18.85<br>18.92<br>18.81<br>18.87  | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49   | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39<br>19.41  |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°   | 18.98<br>18.93<br>18.87<br>18.93<br>18.85<br>18.85  | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33  | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39   |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°<br>285°<br>275°<br>265°   | 18.98<br>18.93<br>18.87<br>18.93<br>18.85<br>18.92<br>18.81<br>18.87<br>18.92<br>18.90<br>18.92   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.47  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32<br>17.40<br>17.49<br>17.49  | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39<br>19.41<br>19.42<br>19.35  |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°<br>285°<br>275°<br>266°<br>265°<br>255°   | 18.98 18.93 18.87 18.93 18.857 18.93 18.85 18.92 18.81 18.87 18.92 18.90 18.90 18.92  | 17.46<br>17.46<br>17.45<br>17.47<br>17.47<br>17.33<br>17.33<br>17.45<br>17.41<br>17.31<br>17.37   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.41<br>17.47<br>17.46  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32<br>17.40<br>17.49<br>17.49<br>17.49   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39  |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°<br>285°<br>275°<br>265°<br>255°<br>245°   | 18.98 18.93 18.87 18.93 18.85 18.92 18.81 18.87 18.92 18.81 18.90 18.92 18.80 18.92 18.80   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31<br>17.31<br>17.37<br>17.50  | 17.40<br>17.41<br>17.36<br>17.48<br>17.48<br>17.47<br>17.40<br>17.38<br>17.41<br>17.47<br>17.46<br>17.46<br>17.46<br>17.33  | 17.46<br>17.44<br>17.40<br>17.45<br>17.45<br>17.36<br>17.32<br>17.40<br>17.49<br>17.49<br>17.49<br>17.47<br>17.47   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39  |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°<br>285°<br>275°<br>266°<br>255°<br>245°<br>245°   | 18.98 18.93 18.97 18.93 18.87 18.93 18.85 18.92 18.81 18.87 18.92 18.90 18.92 18.90 18.92 18.98   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31<br>17.37<br>17.50<br>17.42<br>17.42   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>12.47<br>17.46<br>17.46<br>17.33<br>17.34  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.32<br>17.32<br>17.40<br>17.49<br>17.49<br>17.47<br>17.47<br>17.31<br>17.31  | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45   |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°<br>285°<br>275°<br>265°<br>245°<br>245°<br>245°<br>225°   | 18.98 18.93 18.87 18.93 18.87 18.93 18.85 18.92 18.81 18.87 18.99 18.92 18.90 18.92 18.98 18.98   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31<br>17.31<br>17.37<br>17.50<br>17.42<br>17.42<br>17.48   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.47<br>17.46<br>17.46<br>17.33<br>17.34  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.32<br>17.32<br>17.40<br>17.49<br>17.49<br>17.40<br>17.47<br>17.47<br>17.31<br>17.31   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.33<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45   |
|     |                   | 338°<br>337°<br>336°<br>336°<br>335°<br>325°<br>315°<br>306°<br>295°<br>285°<br>275°<br>265°<br>245°<br>245°<br>235°<br>245°<br>245°<br>245°<br>245°<br>245°<br>245°<br>245°<br>24   | 18.98 18.93 18.87 18.83 18.85 18.95 18.92 18.81 18.92 18.92 18.96 18.81 18.98 18.99 18.99   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.33<br>17.45<br>17.41<br>17.31<br>17.37<br>17.50<br>17.42<br>17.48<br>17.40   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.41<br>17.47<br>17.46<br>17.46<br>17.33<br>17.34<br>17.33  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.32<br>17.32<br>17.40<br>17.49<br>17.49<br>17.40<br>17.47<br>17.47<br>17.31<br>17.36<br>17.43  | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.36<br>19.37<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45<br>19.46   |
|     |                   | 338°<br>337°<br>336°<br>335°<br>325°<br>315°<br>305°<br>295°<br>285°<br>275°<br>265°<br>245°<br>245°<br>245°<br>225°   | 18.98 18.93 18.87 18.93 18.87 18.93 18.85 18.92 18.81 18.87 18.99 18.92 18.90 18.92 18.98 18.98   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31<br>17.31<br>17.37<br>17.50<br>17.42<br>17.42<br>17.48   | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.47<br>17.46<br>17.46<br>17.33<br>17.34  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.32<br>17.32<br>17.40<br>17.49<br>17.49<br>17.40<br>17.47<br>17.47<br>17.31<br>17.31   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.33<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45   |
|     | Laptop            | 338"<br>337"<br>336"<br>335"<br>325"<br>315"<br>305"<br>295"<br>265"<br>275"<br>265"<br>245"<br>245"<br>225"<br>245"<br>225"<br>245"<br>225"<br>245"<br>225"<br>245"<br>225"<br>245"<br>225"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245"<br>245" | 18.93 18.87 18.87 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.80 18.80 18.80 18.80 18.80 18.80 18.80 18.80 18.80 18.80 18.80   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31<br>17.37<br>17.50<br>17.42<br>17.42<br>17.42<br>17.42<br>17.43<br>17.45   | 17.40<br>17.41<br>17.36<br>17.48<br>17.48<br>17.49<br>17.40<br>17.40<br>17.40<br>17.40<br>17.47<br>17.46<br>17.46<br>17.33<br>17.34<br>17.33<br>17.34<br>17.38  | 17.46<br>17.44<br>17.40<br>17.45<br>17.45<br>17.45<br>17.32<br>17.30<br>17.49<br>17.49<br>17.40<br>17.47<br>17.31<br>17.31<br>17.33<br>17.43<br>17.43<br>17.44  | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.39<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45<br>19.49<br>19.49<br>19.49  |
|     | Laptop            | 338*<br>338*<br>336*<br>336*<br>326*<br>316*<br>306*<br>296*<br>296*<br>275*<br>265*<br>275*<br>255*<br>245*<br>235*<br>245*<br>245*<br>245*<br>245*<br>245*<br>245*<br>245*<br>24   | 18.98 18.93 18.87 18.83 18.85 18.85 18.85 18.87 18.89 18.92 18.90 18.92 18.99 18.99 18.99 18.99 18.99 18.99 18.99 18.99 18.99 18.98   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.33<br>17.45<br>17.41<br>17.31<br>17.50<br>17.42<br>17.48<br>17.40<br>17.40<br>17.40<br>17.40<br>17.45<br>17.40<br>17.40<br>17.40<br>17.41<br>17.31<br>17.45<br>17.40<br>17.40<br>17.41<br>17.45<br>17.40<br>17.45<br>17.40<br>17.45<br>17.40<br>17.41  | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.47<br>17.46<br>17.46<br>17.33<br>17.34<br>17.34<br>17.35<br>17.35<br>17.35  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32<br>17.40<br>17.49<br>17.49<br>17.40<br>17.47<br>17.31<br>17.31<br>17.33<br>17.44<br>17.43<br>17.43<br>17.43<br>17.43<br>17.43   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.36<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45<br>19.48<br>19.48<br>19.49<br>19.49<br>19.49<br>19.49   |
|     | Laptop            | 338°<br>338°<br>336°<br>336°<br>325°<br>325°<br>325°<br>265°<br>275°<br>275°<br>265°<br>275°<br>275°<br>275°<br>275°<br>275°<br>275°<br>275°<br>27   | 18.98 18.93 18.87 18.87 18.89 18.89 18.89 18.89 18.89 18.81 18.92 18.81 18.92 18.80 18.92 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.90 18.80   | 17.46<br>17.45<br>17.45<br>17.47<br>17.43<br>17.33<br>17.45<br>17.41<br>17.31<br>17.37<br>17.50<br>17.42<br>17.48<br>17.40<br>17.40<br>17.40<br>17.40<br>17.45<br>17.36<br>17.36<br>17.36<br>17.31  | 17.40<br>17.41<br>17.36<br>17.48<br>17.48<br>17.47<br>17.40<br>17.40<br>17.49<br>17.41<br>17.47<br>17.46<br>17.33<br>17.34<br>17.33<br>17.34<br>17.35<br>17.36<br>17.37<br>17.36<br>17.37<br>17.37<br>17.38   | 17.46<br>17.44<br>17.40<br>17.45<br>17.45<br>17.42<br>17.32<br>17.32<br>17.39<br>17.40<br>17.40<br>17.47<br>17.31<br>17.31<br>17.33<br>17.43<br>17.44<br>17.49<br>17.47<br>17.31<br>17.36<br>17.47<br>17.31<br>17.36<br>17.49<br>17.49<br>17.49<br>17.49<br>17.31<br>17.36<br>17.49<br>17.40<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49<br>17.49 | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.32<br>19.33<br>19.33<br>19.34<br>19.42<br>19.35<br>19.44<br>19.39<br>19.46<br>19.49<br>19.49<br>19.49<br>19.49<br>19.49<br>19.39  |
|     | Laptop            | 338*<br>338*<br>336*<br>336*<br>326*<br>316*<br>306*<br>296*<br>296*<br>275*<br>265*<br>275*<br>255*<br>245*<br>235*<br>245*<br>245*<br>245*<br>245*<br>245*<br>245*<br>245*<br>24   | 18.98 18.93 18.87 18.83 18.85 18.85 18.85 18.87 18.89 18.92 18.90 18.92 18.99 18.99 18.99 18.99 18.99 18.99 18.99 18.99 18.99 18.98   | 17.46<br>17.46<br>17.45<br>17.47<br>17.43<br>17.33<br>17.33<br>17.45<br>17.41<br>17.31<br>17.50<br>17.42<br>17.48<br>17.40<br>17.40<br>17.40<br>17.40<br>17.45<br>17.40<br>17.40<br>17.40<br>17.41<br>17.31<br>17.45<br>17.40<br>17.40<br>17.41<br>17.45<br>17.40<br>17.45<br>17.40<br>17.45<br>17.40<br>17.41  | 17.40<br>17.41<br>17.36<br>17.48<br>17.47<br>17.40<br>17.49<br>17.38<br>17.41<br>17.47<br>17.46<br>17.46<br>17.33<br>17.34<br>17.34<br>17.35<br>17.35<br>17.35  | 17.46<br>17.44<br>17.40<br>17.45<br>17.42<br>17.36<br>17.32<br>17.40<br>17.49<br>17.49<br>17.40<br>17.47<br>17.31<br>17.31<br>17.33<br>17.44<br>17.43<br>17.43<br>17.43<br>17.43<br>17.43   | 19.41<br>19.44<br>19.39<br>19.50<br>19.32<br>19.36<br>19.36<br>19.41<br>19.42<br>19.35<br>19.44<br>19.39<br>19.45<br>19.48<br>19.48<br>19.49<br>19.49<br>19.49<br>19.49   |
|     | Laptop            | 338° 338° 338° 338° 338° 328° 328° 328°  | 18.98 18.93 18.87 18.83 18.87 18.93 18.85 18.89 18.89 18.81 18.92 18.81 18.90 18.90 18.90 18.90 18.90 18.90 18.91 18.85 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89 18.89   | 17.46<br>17.45<br>17.45<br>17.47<br>17.43<br>17.33<br>17.43<br>17.41<br>17.31<br>17.37<br>17.50<br>17.42<br>17.48<br>17.40<br>17.49<br>17.49<br>17.40<br>17.45<br>17.45<br>17.45<br>17.45<br>17.45<br>17.47<br>17.37<br>17.37<br>17.37<br>17.37<br>17.37<br>17.37<br>17.37<br>17.37<br>17.38  | 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## 1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. 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=  $\sigma$  ( $|Ei|^2$ )/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following

- 1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- 2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface
- 3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

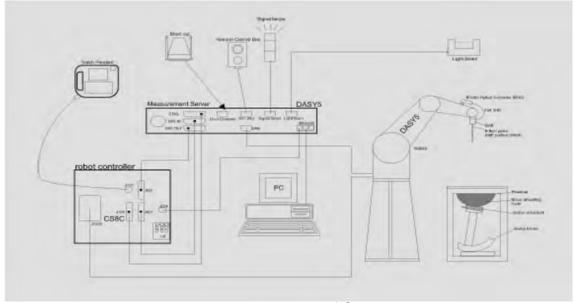


Fig. a The block diagram of SAR system

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- 4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- 5. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- 6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- 7. A computer operating Windows 7.
- 8. DASY 5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- 10. Tissue simulating liquid mixed according to the given recipes.
- 11. Validation dipole kits allowing to validate the proper functioning of the system.

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## 1.8 System Components

#### **EX3DV4 E-Field Probe**

| Construction | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)                     |                         |
|--------------|---|-------------------------|
| Calibration  | Basic Broad Band Calibration in air<br>Conversion Factors (CF) for HSL<br>2450/5200/5300/5600/5800 MHz<br>Additional CF for other liquids and<br>frequencies upon request |                         |
| Frequency    | 10 MHz to > 6 GHz   |                         |
| Directivity  | ± 0.3 dB in HSL (rotation around probe a ± 0.5 dB in tissue material (rotation norm   | ,                       |
| Dynamic      | 10 μW/g to > 100 mW/g   | , ,                     |
| Range        | Linearity: ± 0.2 dB (noise: typically < 1 μ\  | N/g)                    |
| Dimensions   | Tip diameter: 2.5 mm  |                         |
| Application  | High precision dosimetric measurements (e.g., very strong gradient fields). On compliance testing for frequencies up to better 30%.                                       | nly probe which enables |

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## **PHANTOM**

| FITAINTOW      |  |  |
|----------------|--|--|
| Model          | ELI  |  |
| Construction   | body-mounted wireless device<br>to 6 GHz. ELI is fully co<br>standard and all known tissue<br>optimized regarding its perfor<br>our standard phantom tables. I<br>liquid. Reference markings or<br>the complete setup, including | compliance testing of handheld and is in the frequency range of 30 MHz in the frequency range of the frequency freque |
| Shell          | 2 ± 0.2 mm   | 1100000  |
| Thickness      |  |  |
| Filling Volume | Approx. 30 liters  |  |
| Dimensions     | Major axis: 600 mm   | E BERGEREPE   100000001 TO   Val   |
|                | Minor axis: 400 mm   |  |

#### **DEVICE HOLDER**

| DE VIOL HOLL |  |               |
|--------------|--|---------------|
| 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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## 1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 2450/5200/5300/5600/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was ≥ 15 cm ± 5 mm (frequency ≤ 3 GHz) or ≥ 10 cm ± 5 mm (frequency > 3 G Hz) 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.

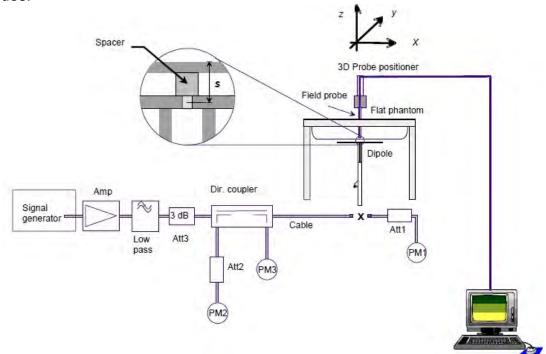


Fig. b The block diagram of system verification

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| Validation<br>Kit | S/N  | Frequency<br>(MHz) |      | (MHz)                         |   | (MHz)  |                  | 1W Target<br>SAR-1g<br>(mW/g) | pin=250mW<br>Measured<br>SAR-1g<br>(mW/g) | Measured<br>SAR-1g<br>normalized to<br>1W (mW/g) | Deviation<br>(%) | Measured<br>Date |
|-------------------|------|--------------------|------|-------------------------------|---|--|------------------|-------------------------------|---|--|------------------|------------------|
| D2450V2           | 727  | 2450               | Head | 52.6                          | 12.80                                     | 51.2   | -2.66%           | Feb. 10, 2021                 |   |  |                  |                  |
| Validation<br>Kit | S/N  | Frequency<br>(MHz) |      | 1W Target<br>SAR-1g<br>(mW/g) | Pin=100mW<br>Measured<br>SAR-1g<br>(mW/g) | Measured<br>SAR-1g<br>normalized to<br>1W (mW/g) | Deviation<br>(%) | Measured<br>Date              |   |  |                  |                  |
|                   |      | 5200               | Head | 75.9                          | 7.61                                      | 76.1   | 0.26%            | Feb. 11, 2021                 |   |  |                  |                  |
| D5GHzV2           | 1040 | 5300               | Head | 78.4                          | 7.76                                      | 77.6   | -1.02%           | Feb. 12, 2021                 |   |  |                  |                  |
| DOGHZVZ           | 1040 | 5600               | Head | 80.6                          | 8.27                                      | 82.7   | 2.61%            | Feb. 13, 2021                 |   |  |                  |                  |
|                   |      | 5800               | Head | 79.3                          | 7.71                                      | 77.1   | -2.77%           | Feb. 14, 2021                 |   |  |                  |                  |

Table 1. Results of system validation

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## 1.10 Tissue Simulant Fluid for the Frequency Band

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.

The depth of the tissue simulant in the flat section of the phantom was  $\geq 15$  cm  $\pm 5$  mm (Frequency  $\leq 3G$ ) or  $\geq 10$  cm  $\pm 5$  mm (Frequency  $\geq 3G$ ) during all tests. (Fig. 2)

| Tissue<br>Type | Measurement<br>Date | Measured<br>Frequency<br>(MHz) | Target<br>Dielectric<br>Constant,<br>εr | Target<br>Conductivity,<br>σ (S/m) | Measured<br>Dielectric<br>Constant,<br>εr | Measured<br>Conductivity,<br>σ (S/m) | % devεr | % dev σ |
|----------------|---------------------|--------------------------------|---|------------------------------------|---|--------------------------------------|---------|---------|
|                |                     | 2402                           | 39.285                                  | 1.757                              | 40.220                                    | 1.805                                | 2.38%   | 2.71%   |
|                |                     | 2412                           | 39.268                                  | 1.766                              | 40.199                                    | 1.817                                | 2.37%   | 2.87%   |
|                |                     | 2437                           | 39.223                                  | 1.788                              | 40.074                                    | 1.846                                | 2.17%   | 3.22%   |
|                | Feb, 10. 2021       | 2441                           | 39.216                                  | 1.792                              | 40.048                                    | 1.852                                | 2.12%   | 3.35%   |
|                |                     | 2450                           | 39.200                                  | 1.800                              | 40.010                                    | 1.863                                | 2.07%   | 3.50%   |
|                |                     | 2462                           | 39.185                                  | 1.813                              | 39.965                                    | 1.877                                | 1.99%   | 3.52%   |
|                |                     | 2480                           | 39.162                                  | 1.833                              | 39.890                                    | 1.904                                | 1.86%   | 3.89%   |
|                | Feb, 11. 2021       | 5200                           | 35.986                                  | 4.655                              | 36.950                                    | 4.572                                | 2.68%   | -1.78%  |
|                |                     | 5220                           | 35.963                                  | 4.676                              | 36.886                                    | 4.618                                | 2.57%   | -1.23%  |
| Head           | Feb, 12. 2021       | 5260                           | 35.917                                  | 4.717                              | 36.787                                    | 4.654                                | 2.42%   | -1.33%  |
| rieau          |                     | 5280                           | 35.894                                  | 4.737                              | 36.751                                    | 4.704                                | 2.39%   | -0.70%  |
|                |                     | 5300                           | 35.871                                  | 4.758                              | 36.654                                    | 4.757                                | 2.18%   | -0.01%  |
|                |                     | 5500                           | 35.643                                  | 4.963                              | 36.093                                    | 4.968                                | 1.26%   | 0.11%   |
|                | Feb, 13. 2021       | 5600                           | 35.529                                  | 5.065                              | 35.799                                    | 5.097                                | 0.76%   | 0.63%   |
|                | Feb, 13. 2021       | 5700                           | 35.414                                  | 5.168                              | 35.514                                    | 5.236                                | 0.28%   | 1.33%   |
|                |                     | 5720                           | 35.391                                  | 5.188                              | 35.457                                    | 5.257                                | 0.19%   | 1.33%   |
|                |                     | 5745                           | 35.363                                  | 5.214                              | 35.390                                    | 5.303                                | 0.08%   | 1.71%   |
|                | Feb, 14. 2021       | 5785                           | 35.317                                  | 5.255                              | 35.285                                    | 5.345                                | -0.09%  | 1.72%   |
|                | Feb, 14. 2021       | 5800                           | 35.300                                  | 5.270                              | 35.269                                    | 5.362                                | -0.09%  | 1.75%   |
|                |                     | 5825                           | 35.271                                  | 5.296                              | 35.041                                    | 5.366                                | -0.65%  | 1.33%   |

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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## The composition of the tissue simulating liquid:

|                    |      |       | Tatal |      |                  |           |       |                 |  |
|--------------------|------|-------|-------|------|------------------|-----------|-------|-----------------|--|
| Frequency<br>(MHz) | Mode | DGMBE | Water | Salt | Preventol<br>D-7 | Cellulose | Sugar | Total<br>amount |  |
| 2450M              | Head | 550ml | 450ml | _    | _                | _         | -     | 1.0L(Kg)        |  |

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

| Ingredients   | Water | Esters, Emulsifiers, Inhibitors | Sodium and Salt |
|---------------|-------|---------------------------------|-----------------|
| (% by weight) | 60-80 | 20-40                           | 0-1.5           |

Table 3. Recipes for Tissue Simulating Liquid

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#### 1.11 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- 1. The extraction of the measured data (grid and values) from the Zoom Scan.
- 2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- 3. The generation of a high-resolution mesh within the measured volume
- 4. The interpolation of all measured values from the measurement grid to the high-resolution grid
- 5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- 6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within –2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in these cube measurements.

The measured volume of 30x30x30mm contains about 30g of tissue.

The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D

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interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

#### 1.12 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

### 1.12.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field (  $_{E})$  and the temperature gradient (  $\delta \mathcal{T}/\delta t$  ) in the liquid.

$$SAR = C \frac{\delta T}{\delta t},$$

whereby  $\sigma$  is the conductivity,  $\rho$  the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

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- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ( $\sim 2\%$  for c; much better for p), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±10% (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is ±5% (RSS) when the same liquid is used for the calibration and for actual measurements and ±7-9% (RSS) when not, which is in good agreement with the estimates given in [2].

#### 1.12.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids. When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small

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setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

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#### 1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("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 C95.1, 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 Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- Occupational/Controlled limits apply when persons are exposed as a (2)consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not

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exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

| Human Exposure                            | Uncontrolled<br>Environment<br>General Population | Controlled Environment<br>Occupational |
|---|---|--|
| Spatial Peak SAR<br>(Brain)               | 1.60 W/kg   | 8.00 W/kg                              |
| Spatial Average SAR (Whole Body)          | 0.08 W/kg   | 0.40 W/kg                              |
| Spatial Peak SAR (Hands/Feet/Ankle/Wrist) | 4.00 W/kg   | 20.00 W/kg                             |

Table 4. RF exposure limits

#### Notes:

- 1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
- 2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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# 2. Summary of Results

#### 2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

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

#### 2.2 Summary of Results

#### **Tablet mode**

#### **WLAN Aux Antenna**

| Antenna | Mode                | Position   | Distance<br>(mm) | СН  | Freq.     | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Duty cycle scaling | Power   | Averaged S<br>(W) |          | Plot page |
|---------|---------------------|------------|------------------|-----|-----------|---------------------------------|------------------------|--------------------|---------|-------------------|----------|-----------|
|         |                     |            | (11111)          |     | (IVII IZ) | Tolerance (dBm)                 | (dBm)                  | Southing           | Souning | Measured          | Reported | page      |
|         |                     | Back side  | 0                | 6   | 2437      | 17.00                           | 16.94                  | 1.053              | 101.39% | 0.109             | 0.116    | -         |
|         |                     | Top side   | 0                | 1   | 2412      | 17.00                           | 16.82                  | 1.053              | 104.23% | 0.973             | 1.068    | -         |
|         |                     | Top side   | 0                | 6   | 2437      | 17.00                           | 16.94                  | 1.053              | 101.39% | 1.070             | 1.142    | -         |
|         | WLAN 802.11b        | Left side  | 0                | 1   | 2412      | 17.00                           | 16.82                  | 1.053              | 104.23% | 1.060             | 1.163    | -         |
|         |                     | Left side  | 0                | 6   | 2437      | 17.00                           | 16.94                  | 1.053              | 101.39% | 1.120             | 1.195    | 60        |
|         |                     | Left side* | 0                | 6   | 2437      | 17.00                           | 16.94                  | 1.053              | 101.39% | 1.110             | 1.185    | -         |
|         |                     | Left side  | 0                | 11  | 2462      | 17.00                           | 16.78                  | 1.053              | 105.20% | 0.984             | 1.090    | -         |
|         | Di strad            | Back side  | 0                | 39  | 2441      | 11.50                           | 11.43                  | 1.297              | 101.62% | 0.025             | 0.033    | -         |
|         | Bluetooth<br>(GFSK) | Top side   | 0                | 39  | 2441      | 11.50                           | 11.43                  | 1.297              | 101.62% | 0.248             | 0.327    | -         |
|         | (5. 5.4)            | Left side  | 0                | 39  | 2441      | 11.50                           | 11.43                  | 1.297              | 101.62% | 0.276             | 0.364    | 61        |
|         | WLAN 802.11a 5.2G   | Back side  | 0                | 44  | 5220      | 17.50                           | 17.28                  | 1.092              | 105.20% | 0.010             | 0.011    | -         |
|         |                     | Top side   | 0                | 44  | 5220      | 17.50                           | 17.28                  | 1.092              | 105.20% | 0.218             | 0.250    |           |
|         |                     | Left side  | 0                | 44  | 5220      | 17.50                           | 17.28                  | 1.092              | 105.20% | 0.572             | 0.657    | 62        |
| Aux     |                     | Back side  | 0                | 56  | 5280      | 18.50                           | 18.47                  | 1.092              | 100.69% | 0.014             | 0.015    | -         |
| Aux     | WLAN 802.11a 5.3G   | Top side   | 0                | 56  | 5280      | 18.50                           | 18.47                  | 1.092              | 100.69% | 0.293             | 0.322    | -         |
|         |                     | Left side  | 0                | 56  | 5280      | 18.50                           | 18.47                  | 1.092              | 100.69% | 0.504             | 0.554    | 63        |
|         |                     | Back side  | 0                | 140 | 5700      | 13.00                           | 12.99                  | 1.092              | 100.23% | 0.034             | 0.037    | -         |
|         |                     | Top side   | 0                | 140 | 5700      | 13.00                           | 12.99                  | 1.092              | 100.23% | 0.725             | 0.793    | -         |
|         |                     | Left side  | 0                | 100 | 5500      | 13.00                           | 12.81                  | 1.092              | 104.47% | 0.966             | 1.102    | -         |
|         | WLAN 802.11a 5.6G   | Left side  | 0                | 120 | 5600      | 13.00                           | 12.78                  | 1.092              | 105.20% | 0.973             | 1.117    | -         |
|         |                     | Left side  | 0                | 140 | 5700      | 13.00                           | 12.99                  | 1.092              | 100.23% | 1.080             | 1.182    | 64        |
|         |                     | Left side* | 0                | 140 | 5700      | 13.00                           | 12.99                  | 1.092              | 100.23% | 1.060             | 1.160    | -         |
|         |                     | Left side  | 0                | 144 | 5720      | 13.00                           | 12.71                  | 1.092              | 106.91% | 0.948             | 1.106    | -         |
|         |                     | Back side  | 0                | 157 | 5785      | 10.50                           | 9.98                   | 1.092              | 112.72% | 0.022             | 0.027    | -         |
|         |                     | Top side   | 0                | 157 | 5785      | 10.50                           | 9.98                   | 1.092              | 112.72% | 0.471             | 0.580    | -         |
|         | WLAN 802.11a 5.8G   | Left side  | 0                | 149 | 5745      | 10.50                           | 9.94                   | 1.092              | 113.76% | 0.761             | 0.945    | -         |
|         |                     | Left side  | 0                | 157 | 5785      | 10.50                           | 9.98                   | 1.092              | 112.72% | 0.809             | 0.996    | 65        |
|         |                     | Left side* | 0                | 157 | 5785      | 10.50                           | 9.98                   | 1.092              | 112.72% | 0.794             | 0.977    | -         |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

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#### **WLAN Main Antenna**

| Antenna | Mode              | Position    | Distance<br>(mm) | СН  | Freq.    | Max. Rated Avg.<br>Power + Max. | Measured<br>Avg. Power | Duty cycle scaling | Power scaling | Averaged S<br>(W) |          | Plot page |
|---------|-------------------|-------------|------------------|-----|----------|---------------------------------|------------------------|--------------------|---------------|-------------------|----------|-----------|
|         |                   |             | ()               |     | (111112) | Tolerance (dBm)                 | (dBm)                  | ooumig             | county        | Measured          | Reported | pago      |
|         |                   | Back side   | 0                | 6   | 2437     | 16.00                           | 15.97                  | 1.053              | 100.69%       | 0.077             | 0.082    | -         |
|         |                   | Top side    | 0                | 6   | 2437     | 16.00                           | 15.97                  | 1.053              | 100.69%       | 0.745             | 0.790    | -         |
|         | WLAN 802.11b      | Right side  | 0                | 1   | 2412     | 16.00                           | 15.95                  | 1.053              | 101.16%       | 0.917             | 0.976    | -         |
|         |                   | Right side  | 0                | 6   | 2437     | 16.00                           | 15.97                  | 1.053              | 100.69%       | 0.952             | 1.009    | 66        |
|         |                   | Right side* | 0                | 6   | 2437     | 16.00                           | 15.97                  | 1.053              | 100.69%       | 0.934             | 0.990    | -         |
|         |                   | Back side   | 0                | 44  | 5220     | 18.00                           | 17.98                  | 1.092              | 100.46%       | 0.009             | 0.010    | -         |
|         | WLAN 802.11a 5.2G | Top side    | 0                | 44  | 5220     | 18.00                           | 17.98                  | 1.092              | 100.46%       | 0.172             | 0.189    | -         |
|         |                   | Right side  | 0                | 44  | 5220     | 18.00                           | 17.98                  | 1.092              | 100.46%       | 0.266             | 0.292    | 67        |
|         | WLAN 802.11a 5.3G | Back side   | 0                | 60  | 5300     | 18.50                           | 18.32                  | 1.092              | 104.23%       | 0.005             | 0.006    | -         |
|         |                   | Top side    | 0                | 60  | 5300     | 18.50                           | 18.32                  | 1.092              | 104.23%       | 0.083             | 0.094    | -         |
|         |                   | Right side  | 0                | 60  | 5300     | 18.50                           | 18.32                  | 1.092              | 104.23%       | 0.131             | 0.149    | 68        |
| Main    |                   | Back side   | 0                | 140 | 5700     | 17.50                           | 17.48                  | 1.092              | 100.46%       | 0.041             | 0.045    | -         |
|         |                   | Top side    | 0                | 140 | 5700     | 17.50                           | 17.48                  | 1.092              | 100.46%       | 0.724             | 0.794    | -         |
|         |                   | Right side  | 0                | 100 | 5500     | 16.00                           | 15.86                  | 1.092              | 103.28%       | 0.788             | 0.888    | -         |
|         | WLAN 802.11a 5.6G | Right side  | 0                | 120 | 5600     | 17.50                           | 17.21                  | 1.092              | 106.91%       | 0.962             | 1.123    | -         |
|         |                   | Right side  | 0                | 140 | 5700     | 17.50                           | 17.48                  | 1.092              | 100.46%       | 1.080             | 1.184    | 69        |
|         |                   | Right side* | 0                | 140 | 5700     | 17.50                           | 17.48                  | 1.092              | 100.46%       | 1.060             | 1.163    | -         |
|         |                   | Right side  | 0                | 144 | 5720     | 17.50                           | 17.11                  | 1.092              | 109.40%       | 0.939             | 1.121    | -         |
|         |                   | Back side   | 0                | 165 | 5825     | 10.00                           | 9.90                   | 1.092              | 102.33%       | 0.030             | 0.034    | -         |
|         |                   | Top side    | 0                | 165 | 5825     | 10.00                           | 9.90                   | 1.092              | 102.33%       | 0.532             | 0.594    | -         |
|         | WLAN 802.11a 5.8G | Right side  | 0                | 157 | 5785     | 10.00                           | 9.75                   | 1.092              | 105.93%       | 0.784             | 0.907    | -         |
|         |                   | Right side  | 0                | 165 | 5825     | 10.00                           | 9.90                   | 1.092              | 102.33%       | 0.829             | 0.926    | 70        |
|         |                   | Right side* | 0                | 165 | 5825     | 10.00                           | 9.90                   | 1.092              | 102.33%       | 0.808             | 0.903    | -         |

<sup>\* -</sup> repeated at the highest SAR measurement according to the KDB 865664 D01

Note:

Scaling = 
$$\frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2(mW)}{P1(mW)} = 10^{\left(\frac{P2-P1}{10}\right)(dBm)}$$

Reported SAR = measured SAR \* (scaling)

Where P2 is maximum specified power, P1 is measured conducted power

## 2.3 Reporting statements of conformity

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

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# 3. Simultaneous Transmission Analysis

#### **Simultaneous Transmission Scenarios:**

| Simultaneous Transmit Configurations | Body |
|--------------------------------------|------|
| 2.4GHz WLAN MIMO                     | Yes  |
| 5GHz WLAN MIMO                       | Yes  |
| BT + 2.4GHz WLAN Main                | Yes  |
| BT + 5GHz WLAN Main                  | Yes  |

#### Note:

- 1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
- 2. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with (or less than) that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.

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#### 3.1 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:

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

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.

## 3.2 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 (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 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 Ri 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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The simultaneous Transmission conditions (Tablet mode)

|                                  |                        | THE SITTUILATIE       | ous mansmiss         | ion conditions (    | (Tablet Illoue) |               |               |               |               |                           |
|----------------------------------|------------------------|-----------------------|----------------------|---------------------|-----------------|---------------|---------------|---------------|---------------|---------------------------|
| Exposure<br>position<br>1g(W/kg) | 1                      | 2                     | 3                    | 4                   | 5               | Scenario<br>1 | Scenario<br>2 | Scenario<br>3 | Scenario<br>4 |                           |
|                                  | WLAN<br>2.4GHz<br>Main | WLAN<br>2.4GHz<br>Aux | WLAN<br>5GHz<br>Main | WLAN<br>5GHz<br>Aux | BT<br>(Aux)     | 1+2<br>Sum    | 3+4<br>Sum    | 1+5<br>Sum    | 3+5<br>Sum    | SPLSR                     |
| Back side                        | 0.082                  | 0.116                 | 0.045                | 0.037               | 0.033           | 0.198         | 0.082         | 0.115         | 0.078         | ΣSAR<1.6,<br>Not required |
| Top side                         | 0.790                  | 1.142                 | 0.794                | 0.793               | 0.327           | 1.932         | 1.587         | 1.117         | 1.121         | Analyzed as below         |
| Right side                       | 1.009                  | -                     | 1.184                | -                   | -               | 1.009         | 1.184         | 1.009         | 1.184         | ΣSAR<1.6,<br>Not required |
| Left side                        | -                      | 1.195                 | -                    | 1.182               | 0.364           | 1.195         | 1.182         | 0.364         | 0.364         | ΣSAR<1.6,<br>Not required |

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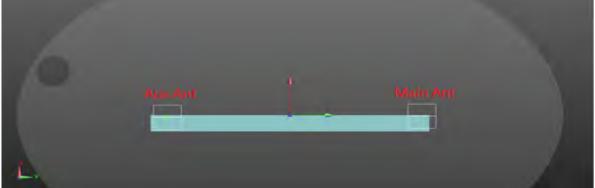
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## WLAN 2.4 GHz Main + 2.4 GHz Aux

| Conditions Po | Position | SAR<br>Value | Coordinates (cm) |        |       | ΣSAR<br>(W/kg) | Peak Location Separation | SPLSR | Simultaneous<br>Transmission |
|---------------|----------|--------------|------------------|--------|-------|----------------|--------------------------|-------|------------------------------|
|               |          | (W/kg)       | х                | У      | Z     | (vv/kg)        | Distance<br>(mm)         |       | SAR Test                     |
| WLAN Main     | Top side | 0.79         | -0.32            | 14.20  | -0.20 | 1.932          | 275.00                   | 0.010 | SPLSR<0.04,                  |
| WLAN Aux      | WLAN Aux | 1.142        | -0.24            | -13.30 | -0.17 |                | 213.00                   | 0.010 | Not required                 |



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# 4. Instruments List

| Manufacturer | Device                          | Туре               | Serial number | Date of last calibration | Date of next calibration |  |
|--------------|---------------------------------|--------------------|---------------|--------------------------|--------------------------|--|
| SPEAG        | Dosimetric E-Field<br>Probe     | EX3DV4             | 7509          | Mar.25,2020              | Mar.24,2021              |  |
| SPEAG        | System Validation               | D2450V2            | 727           | Apr.22,2020              | Apr.21,2021              |  |
| OI E/(O      | Dipole                          | D5GHzV2            | 1040          | Jun.23,2020              | Jun.22,2021              |  |
| SPEAG        | Data acquisition<br>Electronics | DAE4               | 877           |                          | Mar.16,2021              |  |
| SPEAG        | Software                        | DASY 52<br>52.10.4 | N/A           | Calibration not required | •                        |  |
| SPEAG        | Phantom                         | ELI                | N/A           | Calibration not required | Calibration not required |  |
| SPEAG        | Dielectric<br>Assessment Kit    | DAKS-3.5           | 1101          | May.26,2020              | May.25,2021              |  |
| Agilent      | Dual-directional                | 772D               | MY46151242    | Aug.17,2020              | Aug.16,2021              |  |
| 7.9          | coupler                         | 778D               | MY48220468    | Aug.17,2020              | Aug.16,2021              |  |
| Agilent      | Signal Generator                | N5181A             | MY50141235    | May.04,2020              | May.03,2021              |  |
| Agilent      | Power Meter                     | E4417A             | MY51410006    | Mar.09,2020              | Mar.08,2021              |  |
| Agilopt      | Power Sensor                    | E9301H             | MY51470001    | Mar.09,2020              | Mar.08,2021              |  |
| Agilent      | FOWEI SEIISUI                   | E9301H             | MY51470002    | Mar.09,2020              | Mar.08,2021              |  |
| TECPEL       | Digital thermometer             | DTM-303A           | TP130074      | Apr.10,2020              | Apr.09,2021              |  |

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## 5. Measurements

Date: 2021/2/10

Report No. :ES/2020/C0018

WLAN 802.11b\_Body\_Left side\_CH 6\_Aux\_0mm

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.053

Medium parameters used: f = 2437 MHz;  $\sigma = 1.846$  S/m;  $\varepsilon_r = 40.074$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.6°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(7.51, 7.51, 7.51); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 4.529 V/m; Power Drift = 0.18 dB

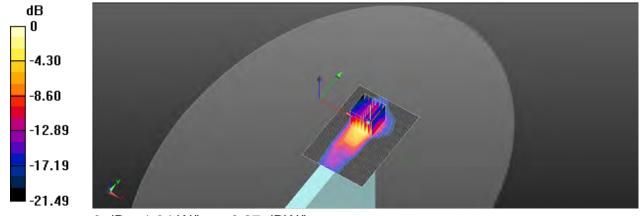
Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.481 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 48.8%

Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 1.94 W/kg = 2.87 dBW/kg

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Date: 2021/2/10

Report No. :ES/2020/C0018

# Bluetooth(GFSK)\_Body\_Left side\_CH 39\_Aux\_0mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1.297 Medium parameters used: f = 2441 MHz;  $\sigma = 1.852$  S/m;  $\varepsilon_r = 40.048$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.6°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(7.51, 7.51, 7.51); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.463 W/kg

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

Reference Value = 2.237 V/m: Power Drift = 0.16 dB

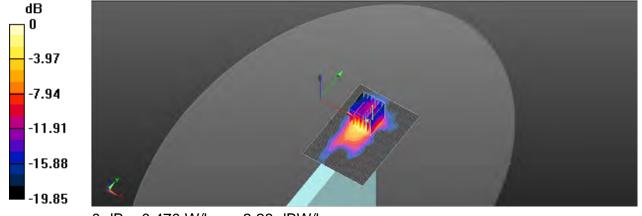
Peak SAR (extrapolated) = 0.757 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.122 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 41.9%

Maximum value of SAR (measured) = 0.470 W/kg



0 dB = 0.470 W/kq = -3.28 dBW/kq

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Date: 2021/2/11

Report No. :ES/2020/C0018

## WLAN 802.11a 5.2G\_Body\_Left side\_CH 44\_Aux\_0mm

Communication System: WLAN; Frequency: 5220 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5220 MHz;  $\sigma = 4.618 \text{ S/m}$ ;  $\varepsilon_r = 36.886$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.7°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN7509; ConvF(5.33, 5.33, 5.33); Calibrated: 2020/03/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.47 W/kg

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

Reference Value = 2.132 V/m: Power Drift = -0.11 dB

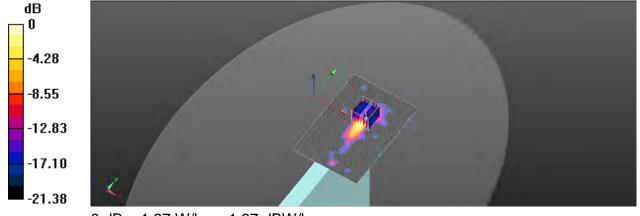
Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.163 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

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



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

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Date: 2021/2/12

Report No. :ES/2020/C0018

## WLAN 802.11a 5.3G\_Body\_Left side\_CH 56\_Aux\_0mm

Communication System: WLAN; Frequency: 5280 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5280 MHz;  $\sigma = 4.704 \text{ S/m}$ ;  $\varepsilon_r = 36.751$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

## DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(5.23, 5.23, 5.23); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.947 W/kg

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

Reference Value = 1.275 V/m; Power Drift = 0.18 dB

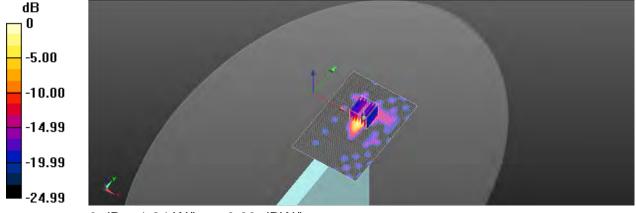
Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.504 W/kg; SAR(10 g) = 0.129 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

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



0 dB = 1.24 W/kg = 0.93 dBW/kg

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Date: 2021/2/13

Report No. :ES/2020/C0018

## WLAN 802.11a 5.6G Body Left side CH 140 Aux 0mm

Communication System: WLAN; Frequency: 5700 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5700 MHz;  $\sigma$  = 5.236 S/m;  $\epsilon_r$  = 35.514;  $\rho$  = 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(4.64, 4.64, 4.64); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.89 W/kg

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

Reference Value = 1.253 V/m: Power Drift = -0.12 dB

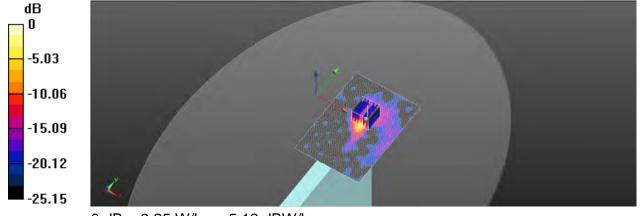
Peak SAR (extrapolated) = 5.74 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.316 W/kg

Smallest distance from peaks to all points 3 dB below = 4 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

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Date: 2021/2/14

Report No. :ES/2020/C0018

## WLAN 802.11a 5.8G Body Left side CH 157 Aux 0mm

Communication System: WLAN; Frequency: 5785 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5785 MHz;  $\sigma$  = 5.345 S/m;  $\epsilon_r$  = 35.285;  $\rho$  = 1000 kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.683 V/m: Power Drift = 0.08 dB

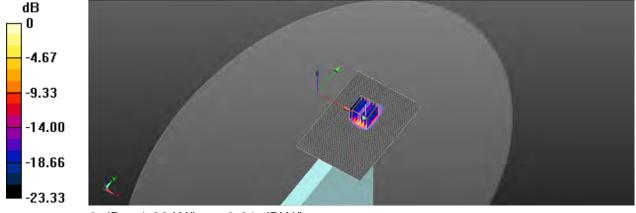
Peak SAR (extrapolated) = 4.35 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.207 W/kg

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

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

Maximum value of SAR (measured) = 1.82 W/kg



0 dB = 1.82 W/kg = 2.61 dBW/kg

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Report No. :ES/2020/C0018

## WLAN 802.11b\_Body\_Right side\_CH 6\_Main\_0mm

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.053

Medium parameters used: f = 2437 MHz;  $\sigma = 1.846$  S/m;  $\varepsilon_r = 40.074$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.6°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(7.51, 7.51, 7.51); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 3.837 V/m; Power Drift = 0.13 dB

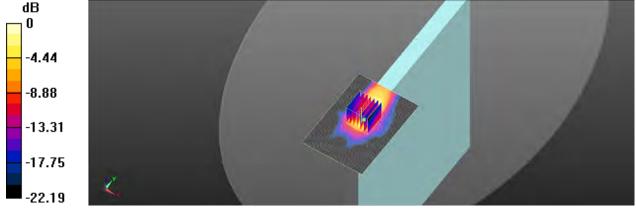
Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.952 W/kg; SAR(10 g) = 0.427 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 43.3%

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kq = 1.86 dBW/kq

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Report No. :ES/2020/C0018

# WLAN 802.11a 5.2G Body Right side CH 44 Main 0mm

Communication System: WLAN; Frequency: 5220 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5220 MHz;  $\sigma = 4.618 \text{ S/m}$ ;  $\varepsilon_r = 36.886$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.7°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(5.33, 5.33, 5.33); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.526 W/kg

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

Reference Value = 2.875 V/m: Power Drift = 0.05 dB

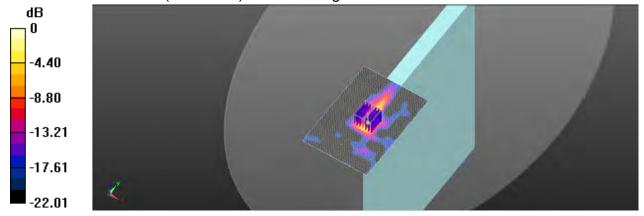
Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.078 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

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



0 dB = 0.600 W/kq = -2.22 dBW/kq

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Date: 2021/2/12

Report No. :ES/2020/C0018

## WLAN 802.11a 5.3G Body Right side CH 60 Main 0mm

Communication System: WLAN; Frequency: 5300 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5300 MHz;  $\sigma = 4.757 \text{ S/m}$ ;  $\varepsilon_r = 36.654$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(5.23, 5.23, 5.23); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.373 W/kg

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

Reference Value = 3.463 V/m: Power Drift = 0.16 dB

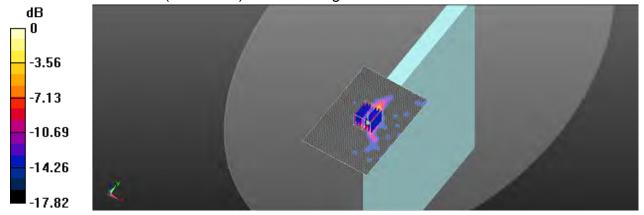
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.040 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 0.307 W/kg



0 dB = 0.307 W/kg = -5.13 dBW/kg

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Date: 2021/2/13

Report No. :ES/2020/C0018

# WLAN 802.11a 5.6G\_Body\_Right side\_CH 140\_Main\_0mm

Communication System: WLAN; Frequency: 5700 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5700 MHz;  $\sigma$  = 5.236 S/m;  $\epsilon_r$  = 35.514;  $\rho$  = 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(4.64, 4.64, 4.64); Calibrated: 2020/03/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x131x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.91 W/kg

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

Reference Value = 1.352 V/m; Power Drift = 0.13 dB

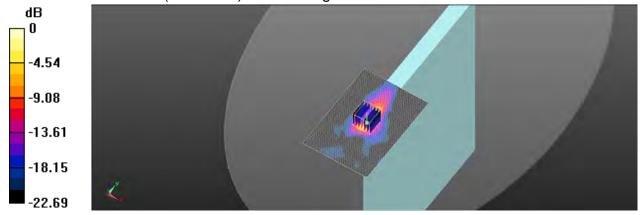
Peak SAR (extrapolated) = 5.34 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.307 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 2.64 W/kg



0 dB = 2.64 W/kg = 4.22 dBW/kg

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Date: 2021/2/14

Report No. :ES/2020/C0018

# WLAN 802.11a 5.8G Body Right side CH 165 Main 0mm

Communication System: WLAN; Frequency: 5825 MHz; Duty Cycle: 1:1.092

Medium parameters used: f = 5825 MHz;  $\sigma = 5.366$  S/m;  $\varepsilon_r = 35.041$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.64 W/kg

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

Reference Value = 4.854 V/m: Power Drift = 0.18 dB

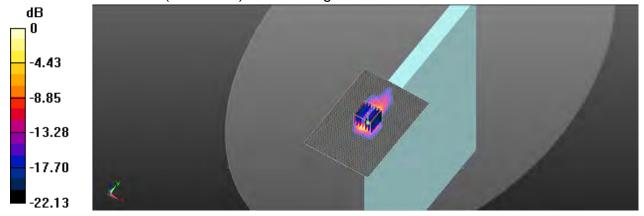
Peak SAR (extrapolated) = 4.07 W/kg

SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.225 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

Maximum value of SAR (measured) = 1.94 W/kg



0 dB = 1.94 W/kg = 2.88 dBW/kg

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# 6. SAR System Performance Verification

Date: 2021/2/10

Report No. :ES/2020/C0018 Dipole 2450 MHz\_SN :727

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

Medium parameters used: f = 2450 MHz;  $\sigma = 1.863 \text{ S/m}$ ;  $\epsilon_r = 40.01$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 21.6°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(7.51, 7.51, 7.51); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.1 W/kg

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

Reference Value = 99.66 V/m; Power Drift = -0.04 dB

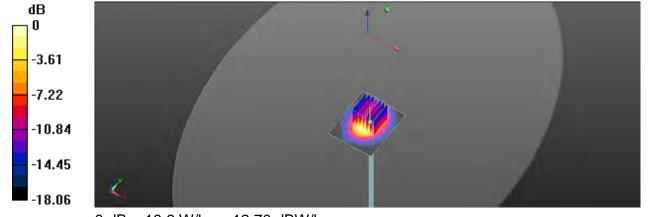
Peak SAR (extrapolated) = 23.6 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 6.41 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg

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Date: 2021/2/11

## Report No. :ES/2020/C0018 Dipole 5200 MHz\_SN:1040

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz;  $\sigma = 4.572 \text{ S/m}$ ;  $\varepsilon_r = 36.95$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.7°C

## DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(5.33, 5.33, 5.33); Calibrated: 2020/03/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.7 W/kg

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

Reference Value = 61.81 V/m: Power Drift = -0.07 dB

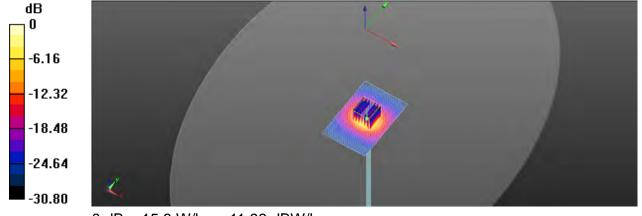
Peak SAR (extrapolated) = 31.0 W/kg

SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.17 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 55%

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



0 dB = 15.8 W/kg = 11.99 dBW/kg

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Date: 2021/2/12

## Report No. :ES/2020/C0018 Dipole 5300 MHz\_SN:1040

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz;  $\sigma = 4.757 \text{ S/m}$ ;  $\varepsilon_r = 36.654$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22°C; Liquid temperature: 21.7°C

#### **DASY5** Configuration:

Probe: EX3DV4 - SN7509; ConvF(5.23, 5.23, 5.23); Calibrated: 2020/03/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.7 W/kg

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

Reference Value = 63.36 V/m; Power Drift = 0.11 dB

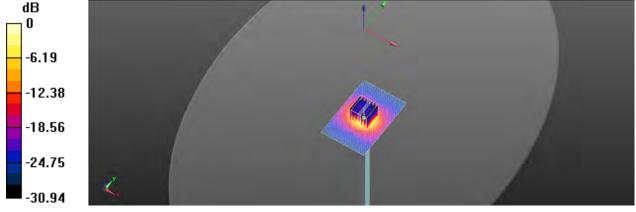
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.2 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.9%

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



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Date: 2021/2/13

## Report No. :ES/2020/C0018 **Dipole 5600 MHz SN:1040**

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

Medium parameters used: f = 5600 MHz;  $\sigma = 5.097 \text{ S/m}$ ;  $\varepsilon_r = 35.799$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

## DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(4.64, 4.64, 4.64); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 64.51 V/m; Power Drift = 0.08 dB

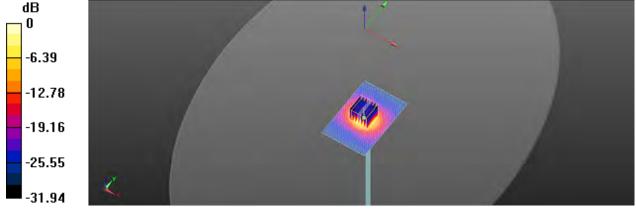
Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.38 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.25 dBW/kg

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Date: 2021/2/14

Report No. :ES/2020/C0018 Dipole 5800 MHz\_SN:1040

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz;  $\sigma = 5.362 \text{ S/m}$ ;  $\epsilon_r = 35.269$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 21.9°C

#### DASY5 Configuration:

Probe: EX3DV4 - SN7509; ConvF(4.85, 4.85, 4.85); Calibrated: 2020/03/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn877; Calibrated: 2020/03/17

· Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.4 W/kg

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

Reference Value = 58.88 V/m; Power Drift = 0.12 dB

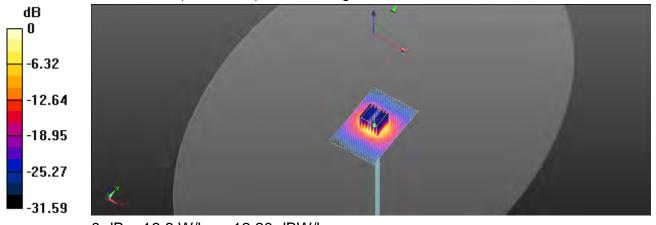
Peak SAR (extrapolated) = 35.8 W/kg

SAR(1 g) = 7.71 W/kg; SAR(10 g) = 2.15 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.3%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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# 7. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

| Α   | С                         | D                          | е   |           | 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 uncertainty | Standard uncertainty | vi, or Veff |
| Measurement system                                |                           |                            |     |           |         |          |                      |                      |             |
| Probe calibration                                 | 6.55%                     | N                          | 1   | 1         | 1       | 1        | 6.55%                | 6.55%                | 80          |
| Isotropy , Axial                                  | 3.50%                     | R                          | √3  | 1.732     | 1       | 1        | 2.02%                | 2.02%                | œ           |
| Isotropy, Hemispherical                           | 9.60%                     | R                          | √3  | 1.732     | 1       | 1        | 5.54%                | 5.54%                | œ           |
| Modulation Response                               | 2.40%                     | R                          | √3  | 1.732     | 1       | 1        | 1.40%                | 1.40%                | ∞           |
| Boundary Effect                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | 80          |
| Linearity   | 4.70%                     | R                          | √3  | 1.732     | 1       | 1        | 2.71%                | 2.71%                | 8           |
| Detection Limits                                  | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | 8           |
| Readout Electronics                               | 0.30%                     | N                          | 1   | 1         | 1       | 1        | 0.30%                | 0.30%                | 80          |
| Response time                                     | 0.80%                     | R                          | √3  | 1.732     | 1       | 1        | 0.46%                | 0.46%                | œ           |
| Integration Time                                  | 2.60%                     | R                          | √3  | 1.732     | 1       | 1        | 1.50%                | 1.50%                | 8           |
| Measurement drift (class A evaluation)            | 1.75%                     | R                          | √3  | 1.732     | 1       | 1        | 1.01%                | 1.01%                | 8           |
| RF ambient condition - noise                      | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                | 8           |
| RF ambient conditions - reflections               | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                | 8           |
| Probe positioner<br>Mechanical restrictions       | 0.40%                     | R                          | √3  | 1.732     | 1       | 1        | 0.23%                | 0.23%                | 8           |
| Probe Positioning with respect to phantom shell   | 2.90%                     | R                          | √3  | 1.732     | 1       | 1        | 1.67%                | 1.67%                | 80          |
| Post-processing                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | 8           |
| Max SAR Eval                                      | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | ∞           |
| Test Sample related                               |                           |                            |     |           |         |          |                      |                      |             |
| 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                          | √3  | 1.732     | 1       | 1        | 2.89%                | 2.89%                | ∞           |
| Phantom and Setup                                 |                           |                            |     |           |         |          |                      |                      |             |
| Phantom Uncertainty                               | 4.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.31%                | 2.31%                | ∞           |
| Liquid permittivity (mea.)                        | 2.68%                     | N                          | 1   | 1         | 0.64    | 0.43     | 1.72%                | 1.15%                | М           |
| Liquid Conductivity (mea.)                        | 1.78%                     | N                          | 1   | 1         | 0.6     | 0.49     | 1.07%                | 0.87%                | М           |
| Combined standard uncertainty                     |                           | RSS                        |     |           |         |          | 11.89%               | 11.80%               |             |
| Expant uncertainty (95% confidence interval), K=2 |                           |                            |     |           |         |          | 23.78%               | 23.59%               |             |

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

| А   | С                         | D                          | е   |           | 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 uncertainty | Standard uncertainty | vi, or Veff |
| Measurement system                                |                           |                            |     |           |         |          |                      |                      |             |
| Probe calibration                                 | 6.00%                     | N                          | 1   | 1         | 1       | 1        | 6.00%                | 6.00%                | ∞           |
| Isotropy , Axial                                  | 3.50%                     | R                          | √3  | 1.732     | 1       | 1        | 2.02%                | 2.02%                | ∞           |
| Isotropy, Hemispherical                           | 9.60%                     | R                          | √3  | 1.732     | 1       | 1        | 5.54%                | 5.54%                | ∞           |
| Modulation Response                               | 2.40%                     | R                          | √3  | 1.732     | 1       | 1        | 1.40%                | 1.40%                | ∞           |
| Boundary Effect                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | ∞           |
| Linearity   | 4.70%                     | R                          | √3  | 1.732     | 1       | 1        | 2.71%                | 2.71%                | ∞           |
| Detection Limits                                  | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | $\infty$    |
| Readout Electronics                               | 0.30%                     | N                          | 1   | 1         | 1       | 1        | 0.30%                | 0.30%                | ∞           |
| Response time                                     | 0.80%                     | R                          | √3  | 1.732     | 1       | 1        | 0.46%                | 0.46%                | ∞           |
| Integration Time                                  | 2.60%                     | R                          | √3  | 1.732     | 1       | 1        | 1.50%                | 1.50%                | ∞           |
| Measurement drift (class A evaluation)            | 1.75%                     | R                          | √3  | 1.732     | 1       | 1        | 1.01%                | 1.01%                | ∞           |
| RF ambient condition - noise                      | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                | ∞           |
| RF ambient conditions - reflections               | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                | 1.73%                | ∞           |
| Probe positioner Mechanical restrictions          | 0.40%                     | R                          | √3  | 1.732     | 1       | 1        | 0.23%                | 0.23%                | ∞           |
| Probe Positioning with respect to phantom shell   | 2.90%                     | R                          | √3  | 1.732     | 1       | 1        | 1.67%                | 1.67%                | ∞           |
| Post-processing                                   | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | ∞           |
| Max SAR Eval                                      | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                | 0.58%                | ∞           |
| Test Sample related                               |                           |                            |     |           |         |          |                      |                      |             |
| 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                          | √3  | 1.732     | 1       | 1        | 2.89%                | 2.89%                | ∞           |
| Phantom and Setup                                 |                           |                            |     |           |         |          |                      |                      |             |
| Phantom Uncertainty                               | 4.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.31%                | 2.31%                | ∞           |
| Liquid permittivity (mea.)                        | 2.38%                     | N                          | 1   | 1         | 0.64    | 0.43     | 1.52%                | 1.02%                | М           |
| Liquid Conductivity (mea.)                        | 3.89%                     | N                          | 1   | 1         | 0.6     | 0.49     | 2.33%                | 1.91%                | М           |
| Combined standard uncertainty                     |                           | RSS                        |     |           |         |          | 11.75%               | 11.61%               |             |
| Expant uncertainty (95% confidence interval), K=2 |                           |                            |     |           |         |          | 23.51%               | 23.22%               |             |

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# **Appendixes**

Refer to separated files for the following appendixes.

ES2020C0018 SAR\_Appendix A Photographs

ES2020C0018 SAR\_Appendix B DAE & Probe Cal. Certificate

ES2020C0018 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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