

SAR TEST REPORT



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

| | |
|-----------------------------|---|
| Equipment Under Test | Convertible PC |
| Brand Name | HP |
| Model No. | TPN-C137 |
| Company Name | HP Inc. |
| Company Address | 1501 Page Mill Road Palo Alto, CA 94304 |
| Standards | IEEE/ANSI C95.1-1992, IEEE 1528-2013, KDB248227D01v02r02,KDB865664D01v01r04, KDB865664D02v01r02,KDB447498D01v06, KDB616217D04v01r02, |
| FCC ID | B94-AX200D2LZ |
| Date of Receipt | Dec. 06, 2019 |
| Date of Test(s) | Dec. 12, 2019 ~ Dec. 16, 2019 |
| Date of Issue | Jan. 06, 2020 |

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 | Supervisor / Afu Chen | Asst. Manager / John Yeh |
|-----------------|-----------------------|--------------------------|
| <i>Ruby Ou</i> | <i>afu Chen</i> | <i>John Yeh</i> |

Date: Jan. 06, 2020

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Revision History

| Revision | Description | Issue Date |
|----------|---------------------------------|---------------|
| Rev.00 | Initial creation of document | Dec. 27, 2019 |
| Rev.01 | Modify section 1.6 and raw data | Jan. 06, 2020 |
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1. General Information

1.1 Testing Laboratory

| | |
|--|---|
| SGS Taiwan Ltd. Electronics & Communication Laboratory | |
| 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Rd., NeiHu Dist., Taipei City, Taiwan, 11493. | |
| Tel | +886-2-2299-3279 |
| Fax | +886-2-2298-0488 |
| Internet | http://www.tw.sgs.com/ |

1.2 Details of Applicant

| | |
|-----------------|---|
| Company Name | HP Inc. |
| Company Address | 1501 Page Mill Road Palo Alto, CA 94304 |

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1.3 Description of EUT

General Information of Host:

| | | | | |
|------------------------------|---|------|------|------|
| Equipment Under Test | Convertible PC | | | |
| Brand Name | HP | | | |
| Model No. | TPN-C137 | | | |
| Integrated Module | Brand Name : Intel Model Name : AX200D2WL | | | |
| FCC ID | B94-AX200D2LZ | | | |
| Mode of Operation | <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n/ac/ax(20M/40M/80M/160M) <input checked="" type="checkbox"/> Bluetooth | | | |
| Duty Cycle | WLAN802.11 a/b/g/n/ac/ax(20M/40M/80M/160M) | 1 | | |
| | Bluetooth | 1 | | |
| TX Frequency Range (MHz) | 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 ac/ax(160M) 5.2G | 5250 | | |
| | WLAN802.11 a/n/ac/ax(20M) 5.3G | 5260 | — | 5320 |
| | WLAN802.11 n/ac/ax(40M) 5.3G | 5270 | — | 5310 |
| | 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 ac/ax(160M) 5.6G | 5570 | | |
| | WLAN802.11 a/n/ac/ax(20M) 5.8G | 5745 | — | 5825 |
| WLAN802.11 n/ac/ax(40M) 5.8G | 5755 | — | 5795 | |

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| | | | |
|--------------------------|--------------------------------|------|--------|
| TX Frequency Range (MHz) | WLAN802.11 ac/ax(80M) 5.8G | 5775 | |
| | Bluetooth | 2402 | — 2480 |
| Channel Number (ARFCN) | 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 ac/ax(160M) 5.2G | 50 | |
| | WLAN802.11 a/n/ac/ax(20M) 5.3G | 52 | — 64 |
| | 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 | 102 | — 142 |
| | WLAN802.11 ac/ax(80M) 5.6G | 106 | — 138 |
| | WLAN802.11 ac/ax(160M) 5.6G | 114 | |
| | 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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Tablet mode (SISO)

| Max. SAR (1g) (Unit: W/Kg) | | | | | |
|----------------------------|--------------------------|----------|----------|---------|----------|
| Antenna | Band | Measured | Reported | Channel | Position |
| Tx1 | WLAN 802.11b | 1.16 | 1.17 | 2 | Top side |
| | WLAN 802.11ac(80M) 5.2G | 1.10 | 1.11 | 42 | Top side |
| | WLAN 802.11ac(80M) 5.3G | 1.03 | 1.04 | 58 | Top side |
| | WLAN 802.11ac(160) 5.6 G | 0.52 | 0.52 | 114 | Top side |
| | WLAN 802.11ac(80M) 5.8G | 0.61 | 0.62 | 155 | Top side |
| Tx2 | WLAN 802.11b | 1.17 | 1.17 | 1 | Top side |
| | Bluetooth(GFSK) | 0.18 | 0.27 | 78 | Top side |
| | WLAN 802.11ac(80M) 5.2G | 1.19 | 1.20 | 42 | Top side |
| | WLAN 802.11ac(80M) 5.3G | 1.01 | 1.02 | 58 | Top side |
| | WLAN 802.11ac(160) 5.6 G | 0.91 | 0.91 | 114 | Top side |
| | WLAN 802.11ac(80M) 5.8G | 1.18 | 1.18 | 155 | Top side |

Notebook mode (SISO)

| Max. SAR (1g) (Unit: W/Kg) | | | | | |
|----------------------------|-------------------------|----------|----------|---------|-------------|
| Antenna | Band | Measured | Reported | Channel | Position |
| Tx1 | WLAN 802.11b | 0.92 | 0.93 | 2 | Bottom side |
| | WLAN 802.11n(40M) 5.2G | 0.92 | 0.92 | 46 | Bottom side |
| | WLAN 802.11n(40M) 5.3G | 1.05 | 1.06 | 54 | Bottom side |
| | WLAN 802.11ac(80M) 5.6G | 0.48 | 0.48 | 106 | Bottom side |
| | WLAN 802.11ac(80M) 5.8G | 0.45 | 0.45 | 155 | Bottom side |
| Tx2 | WLAN 802.11b | 0.85 | 0.85 | 6 | Bottom side |
| | Bluetooth(GFSK) | 0.08 | 0.12 | 78 | Bottom side |
| | WLAN 802.11ac(80M) 5.2G | 0.93 | 0.94 | 42 | Bottom side |
| | WLAN 802.11ac(80M) 5.3G | 0.77 | 0.78 | 58 | Bottom side |
| | WLAN 802.11ac(80M) 5.6G | 0.73 | 0.73 | 106 | Bottom side |
| | WLAN 802.11ac(80M) 5.8G | 0.81 | 0.81 | 155 | Bottom side |

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Antenna Information

| Tablet mode | | | | | | | | | | |
|---------------|----------------------------------|-----------|-----------|-----------|-----------|---------------------------|-----------|-----------|-----------|-----------|
| Vendor | Advanced Wireless & Antenna Inc. | | | | | | | | | |
| Antenna | Tx1 (PIFA) | | | | | Tx2 (PIFA) | | | | |
| Part Number | AML6Y-200004(DC330024W20) | | | | | AML6Y-200004(DC330024W20) | | | | |
| Frequency | 2400-2500 | 5150-5250 | 5250-5350 | 5470-5725 | 5725-5850 | 2400-2500 | 5150-5250 | 5250-5350 | 5470-5725 | 5725-5850 |
| Gain (dBi) | -4.63 | -0.40 | -0.02 | -0.40 | -1.68 | 0.03 | 0.38 | 0.38 | 0.96 | -0.85 |
| Notebook mode | | | | | | | | | | |
| Vendor | Advanced Wireless & Antenna Inc. | | | | | | | | | |
| Antenna | Tx1 (PIFA) | | | | | Tx2 (PIFA) | | | | |
| Part Number | AML6Y-200004(DC330024W20) | | | | | AML6Y-200004(DC330024W20) | | | | |
| Frequency | 2400~2500 | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 | 2400~2500 | 5150~5250 | 5250~5350 | 5470~5725 | 5725~5850 |
| Gain (dBi) | -2.27 | -0.75 | -1.67 | 0.13 | -2.15 | -3.79 | -3.96 | -1.69 | -1.11 | -0.42 |

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WLAN802.11 a/b/g/n(20M/40M)/ac/ax(20M/40M/80M/160M) conducted power table:

| Band \ Antenna | SISO | | MIMO |
|-----------------------|------|-----|-----------|
| | Tx1 | Tx2 | Tx1 + Tx2 |
| 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 |
| WLAN802.11ac(160M) 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 |
| WLAN802.11ax(160M) 5G | V | V | V |

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Tablet mode
SISO power

| Tx1 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 19.50 | 19.42 |
| | | 2 | 2417 | | 20.00 | 19.98 |
| | | 6 | 2437 | | 20.00 | 19.94 |
| | | 10 | 2457 | | 20.00 | 19.96 |
| | | 11 | 2462 | | 18.25 | 18.18 |
| | | 12 | 2467 | | 17.50 | 17.44 |
| | | 13 | 2472 | | 15.25 | 15.12 |
| | 802.11g | 1 | 2412 | 6Mbps | 18.00 | 17.92 |
| | | 2 | 2417 | | 20.00 | 19.96 |
| | | 6 | 2437 | | 20.00 | 19.99 |
| | | 10 | 2457 | | 20.00 | 19.92 |
| | | 11 | 2462 | | 15.50 | 15.41 |
| | | 12 | 2467 | | 13.50 | 13.37 |
| | | 13 | 2472 | | 10.75 | 10.65 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 18.00 | 17.95 |
| | | 2 | 2417 | | 20.00 | 19.93 |
| | | 6 | 2437 | | 20.00 | 19.91 |
| | | 10 | 2457 | | 20.00 | 19.88 |
| | | 11 | 2462 | | 15.50 | 15.37 |
| | | 12 | 2467 | | 13.50 | 13.42 |
| | | 13 | 2472 | | 10.75 | 10.63 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 18.00 | 17.92 |
| | | 2 | 2417 | | 20.00 | 19.95 |
| | | 6 | 2437 | | 20.00 | 19.95 |
| | | 10 | 2457 | | 20.00 | 19.94 |
| | | 11 | 2462 | | 15.50 | 15.38 |
| | | 12 | 2467 | | 13.50 | 13.44 |
| | | 13 | 2472 | | 10.75 | 10.62 |

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| Tx1 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n40-HT0 | 3 | 2422 | MCS0 | 17.00 | 16.89 |
| | | 4 | 2427 | | 17.50 | 17.39 |
| | | 6 | 2437 | | 17.50 | 17.39 |
| | | 8 | 2447 | | 14.50 | 14.41 |
| | | 9 | 2452 | | 14.00 | 13.92 |
| | | 10 | 2457 | | 11.50 | 11.46 |
| | | 11 | 2462 | | 11.50 | 11.39 |
| | 802.11ax40-HE0 | 3 | 2422 | MCS0 | 17.00 | 16.89 |
| | | 4 | 2427 | | 17.50 | 17.37 |
| | | 6 | 2437 | | 17.50 | 17.44 |
| | | 8 | 2447 | | 14.50 | 14.42 |
| | | 9 | 2452 | | 14.00 | 13.88 |
| | | 10 | 2457 | | 11.50 | 11.37 |
| | | 11 | 2462 | | 11.50 | 11.44 |

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| Tx1 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 15.00 | 14.96 |
| | | 40 | 5200 | | 15.00 | 14.91 |
| | | 44 | 5220 | | 15.00 | 14.87 |
| | | 48 | 5240 | | 15.00 | 14.90 |
| | 802.11n20-HT0 | MCS0 | 36 | 5180 | 15.00 | 14.87 |
| | | | 40 | 5200 | 15.00 | 14.91 |
| | | | 44 | 5220 | 15.00 | 14.90 |
| | | | 48 | 5240 | 15.00 | 14.92 |
| | 802.11ac20-VHT0 | MCS0 | 36 | 5180 | 15.00 | 14.92 |
| | | | 40 | 5200 | 15.00 | 14.92 |
| | | | 44 | 5220 | 15.00 | 14.93 |
| | | | 48 | 5240 | 15.00 | 14.95 |
| | 802.11ax20-HE0 | MCS0 | 36 | 5180 | 15.00 | 14.90 |
| | | | 40 | 5200 | 15.00 | 14.91 |
| | | | 44 | 5220 | 15.00 | 14.93 |
| | | | 48 | 5240 | 15.00 | 14.90 |
| | 802.11n40-HT0 | MCS0 | 38 | 5190 | 15.00 | 14.97 |
| | | | 46 | 5230 | 15.00 | 14.99 |
| | 802.11ac40-VHT0 | MCS0 | 38 | 5190 | 15.00 | 14.91 |
| | | | 46 | 5230 | 15.00 | 14.94 |
| | 802.11ax40-HE0 | MCS0 | 38 | 5190 | 15.00 | 14.95 |
| | | | 46 | 5230 | 15.00 | 14.96 |
| | 802.11ac80-VHT0 | MCS0 | 42 | 5210 | 15.00 | 14.97 |
| | 802.11ax80-HE0 | MCS0 | 42 | 5210 | 15.00 | 14.96 |
| 802.11ac160-VHT0 | MCS0 | 50 | 5250 | 14.50 | 14.43 | |
| 802.11ax160-HE0 | MCS0 | 50 | 5250 | 14.50 | 14.41 | |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 15.00 | 14.87 |
| | | 56 | 5280 | | 15.00 | 14.96 |
| | | 60 | 5300 | | 15.00 | 14.88 |
| | | 64 | 5320 | | 15.00 | 14.89 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 15.00 | 14.95 |
| | | 56 | 5280 | | 15.00 | 14.90 |
| | | 60 | 5300 | | 15.00 | 14.90 |
| | | 64 | 5320 | | 15.00 | 14.94 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 15.00 | 14.95 |
| | | 56 | 5280 | | 15.00 | 14.88 |
| | | 60 | 5300 | | 15.00 | 14.91 |
| | | 64 | 5320 | | 15.00 | 14.91 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 15.00 | 14.91 |
| | | 56 | 5280 | | 15.00 | 14.92 |
| | | 60 | 5300 | | 15.00 | 14.93 |
| | | 64 | 5320 | | 15.00 | 14.95 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 15.00 | 14.99 |
| | | 62 | 5310 | | 15.00 | 14.96 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 15.00 | 14.93 |
| | | 62 | 5310 | | 15.00 | 14.94 |
| 802.11ax40-HE0 | 54 | 5270 | MCS0 | 15.00 | 14.92 | |
| | 62 | 5310 | | 15.00 | 14.94 | |
| 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 15.00 | 14.95 | |
| 802.11ax80-HE0 | 58 | 5290 | MCS0 | 15.00 | 14.90 | |

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| Tx1 antenna | | | | | | |
|-------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 13.50 | 13.41 |
| | | 120 | 5600 | | 13.50 | 13.38 |
| | | 140 | 5700 | | 13.50 | 13.44 |
| | | 144 | 5720 | | 13.50 | 13.46 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 13.50 | 13.44 |
| | | 120 | 5600 | | 13.50 | 13.42 |
| | | 140 | 5700 | | 13.50 | 13.39 |
| | | 144 | 5720 | | 13.50 | 13.37 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 13.50 | 13.38 |
| | | 120 | 5600 | | 13.50 | 13.37 |
| | | 140 | 5700 | | 13.50 | 13.43 |
| | | 144 | 5720 | | 13.50 | 13.43 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 13.50 | 13.40 |
| | | 120 | 5600 | | 13.50 | 13.40 |
| | | 140 | 5700 | | 13.50 | 13.46 |
| | | 144 | 5720 | | 13.50 | 13.44 |

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| Tx1 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n40-HT0 | 102 | 5510 | MCS0 | 13.50 | 13.39 |
| | | 118 | 5590 | | 13.50 | 13.44 |
| | | 134 | 5670 | | 13.50 | 13.46 |
| | | 142 | 5710 | | 13.50 | 13.45 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 13.50 | 13.40 |
| | | 118 | 5590 | | 13.50 | 13.41 |
| | | 134 | 5670 | | 13.50 | 13.46 |
| | | 142 | 5710 | | 13.50 | 13.44 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 13.50 | 13.46 |
| | | 118 | 5590 | | 13.50 | 13.46 |
| | | 134 | 5670 | | 13.50 | 13.45 |
| | | 142 | 5710 | | 13.50 | 13.38 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 13.50 | 13.42 |
| | | 122 | 5610 | | 13.50 | 13.47 |
| | | 138 | 5690 | | 13.50 | 13.41 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 13.50 | 13.38 |
| | | 122 | 5610 | | 13.50 | 13.42 |
| | | 138 | 5690 | | 13.50 | 13.45 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 13.50 | 13.48 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 13.50 | 13.46 |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 13.00 | 12.87 |
| | | 157 | 5785 | | 13.00 | 12.93 |
| | | 165 | 5825 | | 13.00 | 12.89 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 13.00 | 12.88 |
| | | 157 | 5785 | | 13.00 | 12.88 |
| | | 165 | 5825 | | 13.00 | 12.92 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 13.00 | 12.88 |
| | | 157 | 5785 | | 13.00 | 12.92 |
| | | 165 | 5825 | | 13.00 | 12.90 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 13.00 | 12.91 |
| | | 157 | 5785 | | 13.00 | 12.95 |
| | | 165 | 5825 | | 13.00 | 12.93 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 13.00 | 12.93 |
| | | 159 | 5795 | | 13.00 | 12.98 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 13.00 | 12.88 |
| | | 159 | 5795 | | 13.00 | 12.94 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 13.00 | 12.87 |
| | | 159 | 5795 | | 13.00 | 12.89 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 13.00 | 12.96 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 13.00 | 12.91 | |

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| Tx2 antenna | | | | | | |
|-------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 18.00 | 17.99 |
| | | 2 | 2417 | | 18.00 | 17.94 |
| | | 6 | 2437 | | 18.00 | 17.96 |
| | | 10 | 2457 | | 18.00 | 17.90 |
| | | 11 | 2462 | | 18.00 | 17.98 |
| | | 12 | 2467 | | 16.50 | 16.38 |
| | | 13 | 2472 | | 15.25 | 15.20 |
| | 802.11g | 1 | 2412 | 6Mbps | 17.00 | 16.92 |
| | | 2 | 2417 | | 18.00 | 17.98 |
| | | 6 | 2437 | | 18.00 | 17.99 |
| | | 10 | 2457 | | 18.00 | 17.96 |
| | | 11 | 2462 | | 15.50 | 15.45 |
| | | 12 | 2467 | | 13.50 | 13.40 |
| | | 13 | 2472 | | 10.75 | 10.70 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 17.00 | 16.91 |
| | | 2 | 2417 | | 18.00 | 17.91 |
| | | 6 | 2437 | | 18.00 | 17.93 |
| | | 10 | 2457 | | 18.00 | 17.87 |
| | | 11 | 2462 | | 15.50 | 15.37 |
| | | 12 | 2467 | | 13.50 | 13.42 |
| | | 13 | 2472 | | 10.75 | 10.69 |
| | 802.11ax20-HEC0 | 1 | 2412 | MCS0 | 17.00 | 16.96 |
| | | 2 | 2417 | | 18.00 | 17.95 |
| | | 6 | 2437 | | 18.00 | 17.90 |
| 10 | | 2457 | 18.00 | | 17.95 | |
| 11 | | 2462 | 15.50 | | 15.44 | |
| 12 | | 2467 | 13.50 | | 13.38 | |
| 13 | | 2472 | 10.75 | | 10.62 | |

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| Tx2 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n40-HT0 | 3 | 2422 | MCS0 | 17.00 | 16.90 |
| | | 4 | 2427 | | 17.50 | 17.40 |
| | | 6 | 2437 | | 17.50 | 17.39 |
| | | 8 | 2447 | | 14.50 | 14.41 |
| | | 9 | 2452 | | 13.75 | 13.65 |
| | | 10 | 2457 | | 11.50 | 11.39 |
| | | 11 | 2462 | | 11.50 | 11.39 |
| | 802.11ax40-HEC | 3 | 2422 | MCS0 | 17.00 | 16.93 |
| | | 4 | 2427 | | 17.50 | 17.39 |
| | | 6 | 2437 | | 17.50 | 17.37 |
| | | 8 | 2447 | | 14.50 | 14.43 |
| | | 9 | 2452 | | 13.75 | 13.64 |
| | | 10 | 2457 | | 11.50 | 11.43 |
| | | 11 | 2462 | | 11.50 | 11.45 |

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| Tx2 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 14.00 | 13.90 |
| | | 40 | 5200 | | 14.00 | 13.89 |
| | | 44 | 5220 | | 14.00 | 13.89 |
| | | 48 | 5240 | | 14.00 | 13.95 |
| | 802.11n20-HT0 | MCS0 | 36 | 5180 | 14.00 | 13.92 |
| | | | 40 | 5200 | 14.00 | 13.95 |
| | | | 44 | 5220 | 14.00 | 13.94 |
| | | | 48 | 5240 | 14.00 | 13.89 |
| | 802.11ac20-VHT0 | MCS0 | 36 | 5180 | 14.00 | 13.88 |
| | | | 40 | 5200 | 14.00 | 13.87 |
| | | | 44 | 5220 | 14.00 | 13.92 |
| | | | 48 | 5240 | 14.00 | 13.92 |
| | 802.11ax20-HE0 | MCS0 | 36 | 5180 | 14.00 | 13.91 |
| | | | 40 | 5200 | 14.00 | 13.96 |
| | | | 44 | 5220 | 14.00 | 13.91 |
| | | | 48 | 5240 | 14.00 | 13.96 |
| | 802.11n40-HT0 | MCS0 | 38 | 5190 | 14.00 | 13.96 |
| | | | 46 | 5230 | 14.00 | 13.95 |
| | 802.11ac40-VHT0 | MCS0 | 38 | 5190 | 14.00 | 13.90 |
| | | | 46 | 5230 | 14.00 | 13.96 |
| | 802.11ax40-HE0 | MCS0 | 38 | 5190 | 14.00 | 13.94 |
| | | | 46 | 5230 | 14.00 | 13.94 |
| | 802.11ac80-VHT0 | MCS0 | 42 | 5210 | 14.00 | 13.98 |
| | 802.11ax80-HE0 | MCS0 | 42 | 5210 | 14.00 | 13.90 |
| 802.11ac160-VHT0 | MCS0 | 50 | 5250 | 13.50 | 13.45 | |
| 802.11ax160-HE0 | MCS0 | 50 | 5250 | 13.50 | 13.43 | |

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| Tx2 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 13.50 | 13.45 |
| | | 56 | 5280 | | 13.50 | 13.42 |
| | | 60 | 5300 | | 13.50 | 13.45 |
| | | 64 | 5320 | | 13.50 | 13.43 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 13.50 | 13.38 |
| | | 56 | 5280 | | 13.50 | 13.37 |
| | | 60 | 5300 | | 13.50 | 13.38 |
| | | 64 | 5320 | | 13.50 | 13.43 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 13.50 | 13.39 |
| | | 56 | 5280 | | 13.50 | 13.43 |
| | | 60 | 5300 | | 13.50 | 13.37 |
| | | 64 | 5320 | | 13.50 | 13.44 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 13.50 | 13.41 |
| | | 56 | 5280 | | 13.50 | 13.43 |
| | | 60 | 5300 | | 13.50 | 13.37 |
| | | 64 | 5320 | | 13.50 | 13.44 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 13.50 | 13.48 |
| | | 62 | 5310 | | 13.50 | 13.42 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 13.50 | 13.38 |
| | | 62 | 5310 | | 13.50 | 13.43 |
| 802.11ax40-HE0 | 54 | 5270 | MCS0 | 13.50 | 13.41 | |
| | 62 | 5310 | | 13.50 | 13.38 | |
| 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 13.50 | 13.44 | |
| 802.11ax80-HE0 | 58 | 5290 | MCS0 | 13.50 | 13.41 | |

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| Tx2 antenna | | | | | | |
|-------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 13.50 | 13.43 |
| | | 120 | 5600 | | 13.50 | 13.37 |
| | | 140 | 5700 | | 13.50 | 13.43 |
| | | 144 | 5720 | | 13.50 | 13.38 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 13.50 | 13.41 |
| | | 120 | 5600 | | 13.50 | 13.39 |
| | | 140 | 5700 | | 13.50 | 13.46 |
| | | 144 | 5720 | | 13.50 | 13.40 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 13.50 | 13.40 |
| | | 120 | 5600 | | 13.50 | 13.39 |
| | | 140 | 5700 | | 13.50 | 13.39 |
| | | 144 | 5720 | | 13.50 | 13.40 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 13.50 | 13.41 |
| | | 120 | 5600 | | 13.50 | 13.38 |
| | | 140 | 5700 | | 13.50 | 13.37 |
| | | 144 | 5720 | | 13.50 | 13.44 |

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| Tx2 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n40-HT0 | 102 | 5510 | MCS0 | 13.50 | 13.42 |
| | | 118 | 5590 | | 13.50 | 13.42 |
| | | 134 | 5670 | | 13.50 | 13.38 |
| | | 142 | 5710 | | 13.50 | 13.44 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 13.50 | 13.39 |
| | | 118 | 5590 | | 13.50 | 13.42 |
| | | 134 | 5670 | | 13.50 | 13.46 |
| | | 142 | 5710 | | 13.50 | 13.45 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 13.50 | 13.42 |
| | | 118 | 5590 | | 13.50 | 13.37 |
| | | 134 | 5670 | | 13.50 | 13.40 |
| | | 142 | 5710 | | 13.50 | 13.37 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 13.50 | 13.42 |
| | | 122 | 5610 | | 13.50 | 13.49 |
| | | 138 | 5690 | | 13.50 | 13.46 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 13.50 | 13.46 |
| | | 122 | 5610 | | 13.50 | 13.40 |
| | | 138 | 5690 | | 13.50 | 13.42 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 13.50 | 13.48 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 13.50 | 13.45 |

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| Tx2 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 15.50 | 15.40 |
| | | 157 | 5785 | | 15.50 | 15.44 |
| | | 165 | 5825 | | 15.50 | 15.41 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 15.50 | 15.37 |
| | | 157 | 5785 | | 15.50 | 15.42 |
| | | 165 | 5825 | | 15.50 | 15.42 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 15.50 | 15.39 |
| | | 157 | 5785 | | 15.50 | 15.40 |
| | | 165 | 5825 | | 15.50 | 15.42 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 15.50 | 15.46 |
| | | 157 | 5785 | | 15.50 | 15.40 |
| | | 165 | 5825 | | 15.50 | 15.40 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 15.50 | 15.48 |
| | | 159 | 5795 | | 15.50 | 15.45 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 15.50 | 15.41 |
| | | 159 | 5795 | | 15.50 | 15.45 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 15.50 | 15.41 |
| | | 159 | 5795 | | 15.50 | 15.42 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 15.50 | 15.49 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 15.50 | 15.43 | |

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MIMO power

| Tx1 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n20-HT0 | 1 | 2412 | MCS0 | 13.25 | 13.11 |
| | | 2 | 2417 | | 14.50 | 14.48 |
| | | 6 | 2437 | | 14.50 | 14.49 |
| | | 10 | 2457 | | 14.50 | 14.41 |
| | | 11 | 2462 | | 11.50 | 11.41 |
| | | 12 | 2467 | | 10.00 | 9.97 |
| | | 13 | 2472 | | 4.75 | 4.62 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 13.25 | 13.05 |
| | | 2 | 2417 | | 14.50 | 14.34 |
| | | 6 | 2437 | | 14.50 | 14.38 |
| | | 10 | 2457 | | 14.50 | 14.34 |
| | | 11 | 2462 | | 11.50 | 11.35 |
| | | 12 | 2467 | | 10.00 | 9.96 |
| | | 13 | 2472 | | 4.75 | 4.58 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 13.25 | 13.21 |
| | | 6 | 2437 | | 13.50 | 13.45 |
| | | 8 | 2447 | | 10.50 | 10.48 |
| | | 9 | 2452 | | 10.25 | 10.17 |
| | | 10 | 2457 | | 7.50 | 7.31 |
| | | 11 | 2462 | | 5.50 | 5.33 |
| | 802.11n40-HE0 | 3 | 2422 | MCS0 | 13.25 | 13.18 |
| | | 6 | 2437 | | 13.50 | 13.42 |
| | | 8 | 2447 | | 10.50 | 10.46 |
| | | 9 | 2452 | | 10.25 | 10.13 |
| 10 | | 2457 | 7.50 | | 7.47 | |
| 11 | | 2462 | 5.50 | | 5.36 | |

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| Tx1 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11n20-HT0 | 36 | 5180 | MCS0 | 11.00 | 10.90 |
| | | 40 | 5200 | | 11.00 | 10.92 |
| | | 44 | 5220 | | 11.00 | 10.79 |
| | | 48 | 5240 | | 11.00 | 10.79 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 11.00 | 10.87 |
| | | 40 | 5200 | | 11.00 | 10.79 |
| | | 44 | 5220 | | 11.00 | 10.84 |
| | | 48 | 5240 | | 11.00 | 10.81 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 11.00 | 10.94 |
| | | 40 | 5200 | | 11.00 | 10.85 |
| | | 44 | 5220 | | 11.00 | 10.93 |
| | | 48 | 5240 | | 11.00 | 10.84 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 11.00 | 10.92 |
| | | 46 | 5230 | | 11.00 | 10.80 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 11.00 | 10.94 |
| | | 46 | 5230 | | 11.00 | 10.90 |
| | 802.11ax40-HE0 | 38 | 5190 | MCS0 | 11.00 | 10.81 |
| | | 46 | 5230 | | 11.00 | 10.93 |
| 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 11.00 | 10.96 | |
| 802.11ax80-HE0 | 42 | 5210 | MCS0 | 11.00 | 10.91 | |
| 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 10.00 | 9.91 | |
| 802.11ax160-HE0 | 50 | 5250 | MCS0 | 10.00 | 9.84 | |

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| Tx1 antenna | | | | | | |
|---------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11n20-HT0 | 52 | 5260 | MCS0 | 10.50 | 10.30 |
| | | 56 | 5280 | | 10.50 | 10.33 |
| | | 60 | 5300 | | 10.50 | 10.38 |
| | | 64 | 5320 | | 10.50 | 10.42 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 10.50 | 10.30 |
| | | 56 | 5280 | | 10.50 | 10.40 |
| | | 60 | 5300 | | 10.50 | 10.34 |
| | | 64 | 5320 | | 10.50 | 10.29 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 10.50 | 10.43 |
| | | 56 | 5280 | | 10.50 | 10.45 |
| | | 60 | 5300 | | 10.50 | 10.32 |
| | | 64 | 5320 | | 10.50 | 10.36 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 10.50 | 10.41 |
| | | 62 | 5310 | | 10.50 | 10.44 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 10.50 | 10.30 |
| | | 62 | 5310 | | 10.50 | 10.37 |
| | 802.11ax40-HE0 | 54 | 5270 | MCS0 | 10.50 | 10.30 |
| | | 62 | 5310 | | 10.50 | 10.38 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 10.50 | 10.47 |
| | 802.11ax80-HE0 | 58 | 5290 | MCS0 | 10.50 | 10.33 |

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| Tx1 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n20-HT0 | 100 | 5500 | MCS0 | 10.50 | 10.25 |
| | | 120 | 5600 | | 10.50 | 10.28 |
| | | 140 | 5700 | | 10.50 | 10.30 |
| | | 144 | 5720 | | 10.50 | 10.30 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 10.50 | 10.36 |
| | | 120 | 5600 | | 10.50 | 10.38 |
| | | 140 | 5700 | | 10.50 | 10.38 |
| | | 144 | 5720 | | 10.50 | 10.31 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 10.50 | 10.31 |
| | | 120 | 5600 | | 10.50 | 10.41 |
| | | 140 | 5700 | | 10.50 | 10.31 |
| | | 144 | 5720 | | 10.50 | 10.31 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 10.50 | 10.31 |
| | | 118 | 5590 | | 10.50 | 10.38 |
| | | 134 | 5670 | | 10.50 | 10.23 |
| | | 142 | 5710 | | 10.50 | 10.37 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 10.50 | 10.40 |
| | | 118 | 5590 | | 10.50 | 10.25 |
| | | 134 | 5670 | | 10.50 | 10.34 |
| | | 142 | 5710 | | 10.50 | 10.33 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 10.50 | 10.41 |
| | | 118 | 5590 | | 10.50 | 10.31 |
| | | 134 | 5670 | | 10.50 | 10.26 |
| | | 142 | 5710 | | 10.50 | 10.30 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 10.50 | 10.23 |
| | | 122 | 5610 | | 10.50 | 10.32 |
| | | 138 | 5690 | | 10.50 | 10.37 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 10.50 | 10.39 |
| | | 122 | 5610 | | 10.50 | 10.36 |
| | | 138 | 5690 | | 10.50 | 10.26 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 10.50 | 10.48 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 10.50 | 10.37 |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11n20-HT0 | 149 | 5745 | MCS0 | 10.00 | 9.82 |
| | | 157 | 5785 | | 10.00 | 9.86 |
| | | 165 | 5825 | | 10.00 | 9.85 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 10.00 | 9.85 |
| | | 157 | 5785 | | 10.00 | 9.79 |
| | | 165 | 5825 | | 10.00 | 9.79 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 10.00 | 9.91 |
| | | 157 | 5785 | | 10.00 | 9.78 |
| | | 165 | 5825 | | 10.00 | 9.77 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 10.00 | 9.82 |
| | | 159 | 5795 | | 10.00 | 9.80 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 10.00 | 9.85 |
| | | 159 | 5795 | | 10.00 | 9.86 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 10.00 | 9.84 |
| | | 159 | 5795 | | 10.00 | 9.84 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 10.00 | 9.98 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 10.00 | 9.76 | |

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| Tx2 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n20-HT0 | 1 | 2412 | MCS0 | 13.25 | 13.08 |
| | | 2 | 2417 | | 14.50 | 14.47 |
| | | 6 | 2437 | | 14.50 | 14.44 |
| | | 10 | 2457 | | 14.50 | 14.49 |
| | | 11 | 2462 | | 11.50 | 11.25 |
| | | 12 | 2467 | | 10.00 | 9.82 |
| | | 13 | 2472 | | 4.75 | 4.63 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 13.25 | 13.07 |
| | | 2 | 2417 | | 14.50 | 14.29 |
| | | 6 | 2437 | | 14.50 | 14.26 |
| | | 10 | 2457 | | 14.50 | 14.37 |
| | | 11 | 2462 | | 11.50 | 11.40 |
| | | 12 | 2467 | | 10.00 | 9.91 |
| | | 13 | 2472 | | 4.75 | 4.62 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 13.25 | 13.01 |
| | | 6 | 2437 | | 13.50 | 13.31 |
| | | 8 | 2447 | | 10.50 | 10.25 |
| | | 9 | 2452 | | 10.25 | 10.17 |
| | | 10 | 2457 | | 7.50 | 7.25 |
| | | 11 | 2462 | | 5.50 | 5.27 |
| | 802.11n40-HE0 | 3 | 2422 | MCS0 | 13.25 | 13.06 |
| | | 6 | 2437 | | 13.50 | 13.34 |
| | | 8 | 2447 | | 10.50 | 10.25 |
| | | 9 | 2452 | | 10.25 | 10.04 |
| 10 | | 2457 | 7.50 | | 7.32 | |
| 11 | | 2462 | 5.50 | | 5.27 | |

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| Tx2 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11n20-HT0 | 36 | 5180 | MCS0 | 11.00 | 10.91 |
| | | 40 | 5200 | | 11.00 | 10.76 |
| | | 44 | 5220 | | 11.00 | 10.91 |
| | | 48 | 5240 | | 11.00 | 10.75 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 11.00 | 10.74 |
| | | 40 | 5200 | | 11.00 | 10.75 |
| | | 44 | 5220 | | 11.00 | 10.87 |
| | | 48 | 5240 | | 11.00 | 10.91 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 11.00 | 10.85 |
| | | 40 | 5200 | | 11.00 | 10.84 |
| | | 44 | 5220 | | 11.00 | 10.91 |
| | | 48 | 5240 | | 11.00 | 10.90 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 11.00 | 10.83 |
| | | 46 | 5230 | | 11.00 | 10.87 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 11.00 | 10.88 |
| | | 46 | 5230 | | 11.00 | 10.75 |
| 802.11ax40-HE0 | 38 | 5190 | MCS0 | 11.00 | 10.74 | |
| | 46 | 5230 | | 11.00 | 10.78 | |
| 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 11.00 | 10.97 | |
| 802.11ax80-HE0 | 42 | 5210 | MCS0 | 11.00 | 10.85 | |
| 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 10.00 | 9.87 | |
| 802.11ax160-HE0 | 50 | 5250 | MCS0 | 10.00 | 9.74 | |

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| Tx2 antenna | | | | | | |
|---------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11n20-HT0 | 52 | 5260 | MCS0 | 10.50 | 10.32 |
| | | 56 | 5280 | | 10.50 | 10.24 |
| | | 60 | 5300 | | 10.50 | 10.39 |
| | | 64 | 5320 | | 10.50 | 10.26 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 10.50 | 10.28 |
| | | 56 | 5280 | | 10.50 | 10.28 |
| | | 60 | 5300 | | 10.50 | 10.36 |
| | | 64 | 5320 | | 10.50 | 10.24 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 10.50 | 10.23 |
| | | 56 | 5280 | | 10.50 | 10.31 |
| | | 60 | 5300 | | 10.50 | 10.42 |
| | | 64 | 5320 | | 10.50 | 10.37 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 10.50 | 10.24 |
| | | 62 | 5310 | | 10.50 | 10.25 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 10.50 | 10.23 |
| | | 62 | 5310 | | 10.50 | 10.35 |
| | 802.11ax40-HE0 | 54 | 5270 | MCS0 | 10.50 | 10.34 |
| | | 62 | 5310 | | 10.50 | 10.39 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 10.50 | 10.48 |
| | 802.11ax80-HE0 | 58 | 5290 | MCS0 | 10.50 | 10.40 |

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| Tx2 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n20-HT0 | 100 | 5500 | MCS0 | 10.50 | 10.36 |
| | | 120 | 5600 | | 10.50 | 10.37 |
| | | 140 | 5700 | | 10.50 | 10.35 |
| | | 144 | 5720 | | 10.50 | 10.29 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 10.50 | 10.36 |
| | | 120 | 5600 | | 10.50 | 10.35 |
| | | 140 | 5700 | | 10.50 | 10.31 |
| | | 144 | 5720 | | 10.50 | 10.23 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 10.50 | 10.25 |
| | | 120 | 5600 | | 10.50 | 10.34 |
| | | 140 | 5700 | | 10.50 | 10.30 |
| | | 144 | 5720 | | 10.50 | 10.38 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 10.50 | 10.27 |
| | | 118 | 5590 | | 10.50 | 10.25 |
| | | 134 | 5670 | | 10.50 | 10.38 |
| | | 142 | 5710 | | 10.50 | 10.29 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 10.50 | 10.25 |
| | | 118 | 5590 | | 10.50 | 10.34 |
| | | 134 | 5670 | | 10.50 | 10.39 |
| | | 142 | 5710 | | 10.50 | 10.33 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 10.50 | 10.39 |
| | | 118 | 5590 | | 10.50 | 10.30 |
| | | 134 | 5670 | | 10.50 | 10.23 |
| | | 142 | 5710 | | 10.50 | 10.36 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 10.50 | 10.36 |
| | | 122 | 5610 | | 10.50 | 10.40 |
| | | 138 | 5690 | | 10.50 | 10.31 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 10.50 | 10.36 |
| | | 122 | 5610 | | 10.50 | 10.26 |
| | | 138 | 5690 | | 10.50 | 10.35 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 10.50 | 10.44 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 10.50 | 10.38 |

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| Tx2 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11n20-HT0 | 149 | 5745 | MCS0 | 10.00 | 9.90 |
| | | 157 | 5785 | | 10.00 | 9.90 |
| | | 165 | 5825 | | 10.00 | 9.75 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 10.00 | 9.78 |
| | | 157 | 5785 | | 10.00 | 9.77 |
| | | 165 | 5825 | | 10.00 | 9.84 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 10.00 | 9.74 |
| | | 157 | 5785 | | 10.00 | 9.92 |
| | | 165 | 5825 | | 10.00 | 9.87 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 10.00 | 9.78 |
| | | 159 | 5795 | | 10.00 | 9.83 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 10.00 | 9.76 |
| | | 159 | 5795 | | 10.00 | 9.73 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 10.00 | 9.91 |
| | | 159 | 5795 | | 10.00 | 9.83 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 10.00 | 9.93 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 10.00 | 9.81 | |

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Notebook mode

SISO power

| Tx1 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 19.50 | 19.38 |
| | | 2 | 2417 | | 20.00 | 19.98 |
| | | 6 | 2437 | | 20.00 | 19.95 |
| | | 10 | 2457 | | 20.00 | 19.94 |
| | | 11 | 2462 | | 18.25 | 18.16 |
| | | 12 | 2467 | | 17.50 | 17.38 |
| | | 13 | 2472 | | 15.25 | 15.13 |
| | 802.11g | 1 | 2412 | 6Mbps | 18.00 | 17.93 |
| | | 2 | 2417 | | 20.00 | 19.96 |
| | | 6 | 2437 | | 20.00 | 19.97 |
| | | 10 | 2457 | | 20.00 | 19.92 |
| | | 11 | 2462 | | 15.50 | 15.41 |
| | | 12 | 2467 | | 13.50 | 13.43 |
| | | 13 | 2472 | | 10.75 | 10.71 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 18.00 | 17.90 |
| | | 2 | 2417 | | 20.00 | 19.90 |
| | | 6 | 2437 | | 20.00 | 19.87 |
| | | 10 | 2457 | | 20.00 | 19.93 |
| | | 11 | 2462 | | 15.50 | 15.45 |
| | | 12 | 2467 | | 13.50 | 13.42 |
| | | 13 | 2472 | | 10.75 | 10.66 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 18.00 | 17.87 |
| | | 2 | 2417 | | 20.00 | 19.88 |
| | | 6 | 2437 | | 20.00 | 19.92 |
| 10 | | 2457 | 20.00 | | 19.91 | |
| 11 | | 2462 | 15.50 | | 15.37 | |
| 12 | | 2467 | 13.50 | | 13.45 | |
| 13 | | 2472 | 10.75 | | 10.70 | |

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| Tx1 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n40-HT0 | 3 | 2422 | MCS0 | 17.00 | 16.92 |
| | | 4 | 2427 | | 17.50 | 17.41 |
| | | 6 | 2437 | | 17.50 | 17.41 |
| | | 8 | 2447 | | 14.50 | 14.43 |
| | | 9 | 2452 | | 14.00 | 13.88 |
| | | 10 | 2457 | | 11.50 | 11.44 |
| | | 11 | 2462 | | 11.50 | 11.40 |
| | 802.11ax40-HEC | 3 | 2422 | MCS0 | 17.00 | 16.88 |
| | | 4 | 2427 | | 17.50 | 17.42 |
| | | 6 | 2437 | | 17.50 | 17.46 |
| | | 8 | 2447 | | 14.50 | 14.39 |
| | | 9 | 2452 | | 14.00 | 13.89 |
| | | 10 | 2457 | | 11.50 | 11.46 |
| | | 11 | 2462 | | 11.50 | 11.37 |

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| Tx1 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 19.00 | 18.96 |
| | | 40 | 5200 | | 19.00 | 18.93 |
| | | 44 | 5220 | | 19.00 | 18.99 |
| | | 48 | 5240 | | 19.00 | 18.98 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 19.00 | 18.93 |
| | | 40 | 5200 | | 19.00 | 18.94 |
| | | 44 | 5220 | | 19.00 | 18.88 |
| | | 48 | 5240 | | 19.00 | 18.94 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 19.00 | 18.90 |
| | | 40 | 5200 | | 19.00 | 18.92 |
| | | 44 | 5220 | | 19.00 | 18.90 |
| | | 48 | 5240 | | 19.00 | 18.89 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 19.00 | 18.92 |
| | | 40 | 5200 | | 19.00 | 18.95 |
| | | 44 | 5220 | | 19.00 | 18.90 |
| | | 48 | 5240 | | 19.00 | 18.90 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 18.50 | 18.48 |
| | | 46 | 5230 | | 19.00 | 18.98 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 18.50 | 18.43 |
| | | 46 | 5230 | | 19.00 | 18.93 |
| 802.11ax40-HE0 | 38 | 5190 | MCS0 | 18.50 | 18.44 | |
| | 46 | 5230 | | 19.00 | 18.87 | |
| 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 18.50 | 18.41 | |
| 802.11ax80-HE0 | 42 | 5210 | MCS0 | 18.50 | 18.38 | |
| 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 14.50 | 14.46 | |
| 802.11ax160-HE0 | 50 | 5250 | MCS0 | 14.50 | 14.45 | |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 19.00 | 18.98 |
| | | 56 | 5280 | | 19.00 | 18.96 |
| | | 60 | 5300 | | 19.00 | 18.97 |
| | | 64 | 5320 | | 18.75 | 18.69 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 19.00 | 18.96 |
| | | 56 | 5280 | | 19.00 | 18.96 |
| | | 60 | 5300 | | 19.00 | 18.88 |
| | | 64 | 5320 | | 18.75 | 18.67 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 19.00 | 18.91 |
| | | 56 | 5280 | | 19.00 | 18.94 |
| | | 60 | 5300 | | 19.00 | 18.88 |
| | | 64 | 5320 | | 18.75 | 18.65 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 19.00 | 18.91 |
| | | 56 | 5280 | | 19.00 | 18.87 |
| | | 60 | 5300 | | 19.00 | 18.96 |
| | | 64 | 5320 | | 18.75 | 18.67 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 19.00 | 18.98 |
| | | 62 | 5310 | | 17.50 | 17.44 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 19.00 | 18.94 |
| | | 62 | 5310 | | 17.50 | 17.41 |
| 802.11ax40-HE0 | 54 | 5270 | MCS0 | 19.00 | 18.88 | |
| | 62 | 5310 | | 17.50 | 17.40 | |
| 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 18.25 | 18.14 | |
| 802.11ax80-HE0 | 58 | 5290 | MCS0 | 18.25 | 18.16 | |

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| Tx1 antenna | | | | | | |
|-------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 17.00 | 16.91 |
| | | 120 | 5600 | | 17.00 | 16.89 |
| | | 140 | 5700 | | 17.00 | 16.88 |
| | | 144 | 5720 | | 17.00 | 16.90 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 17.00 | 16.92 |
| | | 120 | 5600 | | 17.00 | 16.96 |
| | | 140 | 5700 | | 17.00 | 16.94 |
| | | 144 | 5720 | | 17.00 | 16.90 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 17.00 | 16.89 |
| | | 120 | 5600 | | 17.00 | 16.94 |
| | | 140 | 5700 | | 17.00 | 16.90 |
| | | 144 | 5720 | | 17.00 | 16.96 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 17.00 | 16.91 |
| | | 120 | 5600 | | 17.00 | 16.96 |
| | | 140 | 5700 | | 17.00 | 16.92 |
| | | 144 | 5720 | | 17.00 | 16.89 |

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| Tx1 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n40-HT0 | 102 | 5510 | MCS0 | 17.00 | 16.99 |
| | | 118 | 5590 | | 17.00 | 16.97 |
| | | 134 | 5670 | | 17.00 | 16.98 |
| | | 142 | 5710 | | 17.00 | 16.93 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 17.00 | 16.91 |
| | | 118 | 5590 | | 17.00 | 16.94 |
| | | 134 | 5670 | | 17.00 | 16.88 |
| | | 142 | 5710 | | 17.00 | 16.91 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 17.00 | 16.87 |
| | | 118 | 5590 | | 17.00 | 16.96 |
| | | 134 | 5670 | | 17.00 | 16.95 |
| | | 142 | 5710 | | 17.00 | 16.94 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 17.00 | 16.99 |
| | | 122 | 5610 | | 17.00 | 16.98 |
| | | 138 | 5690 | | 17.00 | 16.92 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 17.00 | 16.93 |
| | | 122 | 5610 | | 17.00 | 16.87 |
| | | 138 | 5690 | | 17.00 | 16.88 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 15.50 | 15.46 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 15.50 | 15.43 |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 16.50 | 16.44 |
| | | 157 | 5785 | | 16.50 | 16.43 |
| | | 165 | 5825 | | 16.50 | 16.38 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 16.50 | 16.44 |
| | | 157 | 5785 | | 16.50 | 16.37 |
| | | 165 | 5825 | | 16.50 | 16.39 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 16.50 | 16.46 |
| | | 157 | 5785 | | 16.50 | 16.45 |
| | | 165 | 5825 | | 16.50 | 16.37 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 16.50 | 16.45 |
| | | 157 | 5785 | | 16.50 | 16.46 |
| | | 165 | 5825 | | 16.50 | 16.46 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 16.50 | 16.49 |
| | | 159 | 5795 | | 16.50 | 16.47 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 16.50 | 16.38 |
| | | 159 | 5795 | | 16.50 | 16.41 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 16.50 | 16.46 |
| | | 159 | 5795 | | 16.50 | 16.46 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 16.50 | 16.49 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 16.50 | 16.46 | |

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| Tx2 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 19.00 | 18.97 |
| | | 2 | 2417 | | 19.00 | 18.88 |
| | | 6 | 2437 | | 19.00 | 18.99 |
| | | 10 | 2457 | | 19.00 | 18.96 |
| | | 11 | 2462 | | 18.25 | 18.15 |
| | | 12 | 2467 | | 16.50 | 16.43 |
| | | 13 | 2472 | | 15.25 | 15.14 |
| | 802.11g | 1 | 2412 | 6Mbps | 17.00 | 16.89 |
| | | 2 | 2417 | | 19.00 | 18.95 |
| | | 6 | 2437 | | 19.00 | 18.98 |
| | | 10 | 2457 | | 19.00 | 18.97 |
| | | 11 | 2462 | | 15.50 | 15.40 |
| | | 12 | 2467 | | 13.50 | 13.45 |
| | | 13 | 2472 | | 10.75 | 10.69 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 17.00 | 16.91 |
| | | 2 | 2417 | | 19.00 | 18.95 |
| | | 6 | 2437 | | 19.00 | 18.94 |
| | | 10 | 2457 | | 19.00 | 18.96 |
| | | 11 | 2462 | | 15.50 | 15.45 |
| | | 12 | 2467 | | 13.50 | 13.44 |
| | | 13 | 2472 | | 10.75 | 10.65 |
| | 802.11ax20-HEC | 1 | 2412 | MCS0 | 17.00 | 16.90 |
| | | 2 | 2417 | | 19.00 | 18.93 |
| | | 6 | 2437 | | 19.00 | 18.92 |
| 10 | | 2457 | 19.00 | | 18.93 | |
| 11 | | 2462 | 15.50 | | 15.43 | |
| 12 | | 2467 | 13.50 | | 13.46 | |
| 13 | | 2472 | 10.75 | | 10.63 | |

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| Tx2 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n40-HT0 | 3 | 2422 | MCS0 | 17.00 | 16.95 |
| | | 4 | 2427 | | 17.50 | 17.45 |
| | | 6 | 2437 | | 17.50 | 17.46 |
| | | 8 | 2447 | | 14.50 | 14.40 |
| | | 9 | 2452 | | 13.75 | 13.66 |
| | | 10 | 2457 | | 11.50 | 11.44 |
| | | 11 | 2462 | | 11.50 | 11.37 |
| | 802.11ax40-HEC | 3 | 2422 | MCS0 | 17.00 | 16.89 |
| | | 4 | 2427 | | 17.50 | 17.45 |
| | | 6 | 2437 | | 17.50 | 17.42 |
| | | 8 | 2447 | | 14.50 | 14.46 |
| | | 9 | 2452 | | 13.75 | 13.71 |
| | | 10 | 2457 | | 11.50 | 11.41 |
| | | 11 | 2462 | | 11.50 | 11.45 |

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| Tx2 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 18.50 | 18.44 |
| | | 40 | 5200 | | 18.50 | 18.47 |
| | | 44 | 5220 | | 18.50 | 18.43 |
| | | 48 | 5240 | | 18.50 | 18.49 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 18.50 | 18.41 |
| | | 40 | 5200 | | 18.50 | 18.40 |
| | | 44 | 5220 | | 18.50 | 18.37 |
| | | 48 | 5240 | | 18.50 | 18.39 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 18.50 | 18.42 |
| | | 40 | 5200 | | 18.50 | 18.39 |
| | | 44 | 5220 | | 18.50 | 18.46 |
| | | 48 | 5240 | | 18.50 | 18.39 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 18.50 | 18.37 |
| | | 40 | 5200 | | 18.50 | 18.44 |
| | | 44 | 5220 | | 18.50 | 18.38 |
| | | 48 | 5240 | | 18.50 | 18.46 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 18.50 | 18.46 |
| | | 46 | 5230 | | 18.50 | 18.48 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 18.50 | 18.46 |
| | | 46 | 5230 | | 18.50 | 18.38 |
| 802.11ax40-HE0 | 38 | 5190 | MCS0 | 18.50 | 18.44 | |
| | 46 | 5230 | | 18.50 | 18.40 | |
| 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 18.50 | 18.49 | |
| 802.11ax80-HE0 | 42 | 5210 | MCS0 | 18.50 | 18.41 | |
| 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 14.50 | 14.41 | |
| 802.11ax160-HE0 | 50 | 5250 | MCS0 | 14.50 | 14.37 | |

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| Tx2 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 18.00 | 17.95 |
| | | 56 | 5280 | | 18.00 | 17.90 |
| | | 60 | 5300 | | 18.00 | 17.90 |
| | | 64 | 5320 | | 18.00 | 17.88 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 18.00 | 17.91 |
| | | 56 | 5280 | | 18.00 | 17.90 |
| | | 60 | 5300 | | 18.00 | 17.94 |
| | | 64 | 5320 | | 18.00 | 17.87 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 18.00 | 17.96 |
| | | 56 | 5280 | | 18.00 | 17.96 |
| | | 60 | 5300 | | 18.00 | 17.89 |
| | | 64 | 5320 | | 18.00 | 17.91 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 18.00 | 17.96 |
| | | 56 | 5280 | | 18.00 | 17.96 |
| | | 60 | 5300 | | 18.00 | 17.89 |
| | | 64 | 5320 | | 18.00 | 17.92 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 18.00 | 17.98 |
| | | 62 | 5310 | | 17.50 | 17.48 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 18.00 | 17.89 |
| | | 62 | 5310 | | 17.50 | 17.39 |
| 802.11ax40-HE0 | 54 | 5270 | MCS0 | 18.00 | 17.88 | |
| | 62 | 5310 | | 17.50 | 17.42 | |
| 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 18.00 | 17.97 | |
| 802.11ax80-HE0 | 58 | 5290 | MCS0 | 18.00 | 17.96 | |

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| Tx2 antenna | | | | | | |
|-------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 17.00 | 16.95 |
| | | 120 | 5600 | | 17.00 | 16.96 |
| | | 140 | 5700 | | 17.00 | 16.94 |
| | | 144 | 5720 | | 17.00 | 16.94 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 17.00 | 16.96 |
| | | 120 | 5600 | | 17.00 | 16.87 |
| | | 140 | 5700 | | 17.00 | 16.92 |
| | | 144 | 5720 | | 17.00 | 16.96 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 17.00 | 16.91 |
| | | 120 | 5600 | | 17.00 | 16.94 |
| | | 140 | 5700 | | 17.00 | 16.91 |
| | | 144 | 5720 | | 17.00 | 16.91 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 17.00 | 16.96 |
| | | 120 | 5600 | | 17.00 | 16.92 |
| | | 140 | 5700 | | 17.00 | 16.96 |
| | | 144 | 5720 | | 17.00 | 16.89 |

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| Tx2 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n40-HT0 | 102 | 5510 | MCS0 | 17.00 | 16.93 |
| | | 118 | 5590 | | 17.00 | 16.94 |
| | | 134 | 5670 | | 17.00 | 16.95 |
| | | 142 | 5710 | | 17.00 | 16.97 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 17.00 | 16.95 |
| | | 118 | 5590 | | 17.00 | 16.94 |
| | | 134 | 5670 | | 17.00 | 16.88 |
| | | 142 | 5710 | | 17.00 | 16.96 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 17.00 | 16.96 |
| | | 118 | 5590 | | 17.00 | 16.91 |
| | | 134 | 5670 | | 17.00 | 16.94 |
| | | 142 | 5710 | | 17.00 | 16.95 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 17.00 | 16.98 |
| | | 122 | 5610 | | 17.00 | 16.97 |
| | | 138 | 5690 | | 17.00 | 16.93 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 17.00 | 16.90 |
| | | 122 | 5610 | | 17.00 | 16.96 |
| | | 138 | 5690 | | 17.00 | 16.94 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 15.00 | 14.91 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 15.00 | 14.91 |

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| Tx2 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 17.00 | 16.94 |
| | | 157 | 5785 | | 17.00 | 16.96 |
| | | 165 | 5825 | | 17.00 | 16.93 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 17.00 | 16.91 |
| | | 157 | 5785 | | 17.00 | 16.95 |
| | | 165 | 5825 | | 17.00 | 16.90 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 17.00 | 16.92 |
| | | 157 | 5785 | | 17.00 | 16.95 |
| | | 165 | 5825 | | 17.00 | 16.94 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 17.00 | 16.89 |
| | | 157 | 5785 | | 17.00 | 16.90 |
| | | 165 | 5825 | | 17.00 | 16.92 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 17.00 | 16.98 |
| | | 159 | 5795 | | 17.00 | 16.95 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 17.00 | 16.93 |
| | | 159 | 5795 | | 17.00 | 16.93 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 17.00 | 16.94 |
| | | 159 | 5795 | | 17.00 | 16.90 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 17.00 | 16.97 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 17.00 | 16.90 | |

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MIMO power

| Tx1 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n20-HT0 | 1 | 2412 | MCS0 | 13.25 | 13.13 |
| | | 2 | 2417 | | 14.50 | 14.48 |
| | | 6 | 2437 | | 14.50 | 14.49 |
| | | 10 | 2457 | | 14.50 | 14.46 |
| | | 11 | 2462 | | 11.50 | 11.41 |
| | | 12 | 2467 | | 10.00 | 9.91 |
| | | 13 | 2472 | | 4.75 | 4.62 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 13.25 | 13.20 |
| | | 2 | 2417 | | 14.50 | 14.40 |
| | | 6 | 2437 | | 14.50 | 14.46 |
| | | 10 | 2457 | | 14.50 | 14.44 |
| | | 11 | 2462 | | 11.50 | 11.45 |
| | | 12 | 2467 | | 10.00 | 9.93 |
| | | 13 | 2472 | | 4.75 | 4.70 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 13.25 | 13.19 |
| | | 6 | 2437 | | 13.50 | 13.39 |
| | | 8 | 2447 | | 10.50 | 10.46 |
| | | 9 | 2452 | | 10.25 | 10.16 |
| | | 10 | 2457 | | 7.50 | 7.44 |
| | | 11 | 2462 | | 5.50 | 5.42 |
| | 802.11n40-HE0 | 3 | 2422 | MCS0 | 13.25 | 13.14 |
| | | 6 | 2437 | | 13.50 | 13.37 |
| | | 8 | 2447 | | 10.50 | 10.46 |
| | | 9 | 2452 | | 10.25 | 10.19 |
| 10 | | 2457 | 7.50 | | 7.39 | |
| 11 | | 2462 | 5.50 | | 5.42 | |

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| Tx1 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11n20-HT0 | 36 | 5180 | MCS0 | 15.00 | 14.88 |
| | | 40 | 5200 | | 15.50 | 15.46 |
| | | 44 | 5220 | | 15.50 | 15.38 |
| | | 48 | 5240 | | 15.50 | 15.39 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 15.00 | 14.96 |
| | | 40 | 5200 | | 15.50 | 15.43 |
| | | 44 | 5220 | | 15.50 | 15.43 |
| | | 48 | 5240 | | 15.50 | 15.41 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 15.00 | 14.92 |
| | | 40 | 5200 | | 15.50 | 15.42 |
| | | 44 | 5220 | | 15.50 | 15.44 |
| | | 48 | 5240 | | 15.50 | 15.43 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 13.50 | 13.44 |
| | | 46 | 5230 | | 15.50 | 15.46 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 13.50 | 13.42 |
| | | 46 | 5230 | | 15.50 | 15.44 |
| | 802.11ax40-HE0 | 38 | 5190 | MCS0 | 13.50 | 13.37 |
| | | 46 | 5230 | | 15.50 | 15.37 |
| 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 14.00 | 13.93 | |
| 802.11ax80-HE0 | 42 | 5210 | MCS0 | 14.00 | 13.88 | |
| 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 10.00 | 9.96 | |
| 802.11ax160-HE0 | 50 | 5250 | MCS0 | 10.00 | 9.94 | |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11n20-HT0 | 52 | 5260 | MCS0 | 15.00 | 14.91 |
| | | 56 | 5280 | | 15.00 | 14.93 |
| | | 60 | 5300 | | 15.00 | 14.92 |
| | | 64 | 5320 | | 14.50 | 14.43 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 15.00 | 14.96 |
| | | 56 | 5280 | | 15.00 | 14.94 |
| | | 60 | 5300 | | 15.00 | 14.88 |
| | | 64 | 5320 | | 14.50 | 14.40 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 15.00 | 14.96 |
| | | 56 | 5280 | | 15.00 | 14.88 |
| | | 60 | 5300 | | 15.00 | 14.94 |
| | | 64 | 5320 | | 14.50 | 14.43 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 15.00 | 14.98 |
| | | 62 | 5310 | | 13.00 | 12.95 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 15.00 | 14.95 |
| | | 62 | 5310 | | 13.00 | 12.96 |
| | 802.11ax40-HE0 | 54 | 5270 | MCS0 | 15.00 | 14.87 |
| | | 62 | 5310 | | 13.00 | 12.89 |
| 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 12.75 | 12.65 | |
| 802.11ax80-HE0 | 58 | 5290 | MCS0 | 12.75 | 12.71 | |

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| Tx1 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n20-HT0 | 100 | 5500 | MCS0 | 14.00 | 13.91 |
| | | 120 | 5600 | | 14.00 | 13.93 |
| | | 140 | 5700 | | 14.00 | 13.91 |
| | | 144 | 5720 | | 14.00 | 13.95 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 14.00 | 13.88 |
| | | 120 | 5600 | | 14.00 | 13.94 |
| | | 140 | 5700 | | 14.00 | 13.89 |
| | | 144 | 5720 | | 14.00 | 13.96 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 14.00 | 13.96 |
| | | 120 | 5600 | | 14.00 | 13.90 |
| | | 140 | 5700 | | 14.00 | 13.90 |
| | | 144 | 5720 | | 14.00 | 13.94 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 14.00 | 13.94 |
| | | 118 | 5590 | | 14.00 | 13.90 |
| | | 134 | 5670 | | 14.00 | 13.95 |
| | | 142 | 5710 | | 14.00 | 13.96 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 14.00 | 13.89 |
| | | 118 | 5590 | | 14.00 | 13.91 |
| | | 134 | 5670 | | 14.00 | 13.93 |
| | | 142 | 5710 | | 14.00 | 13.93 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 14.00 | 13.89 |
| | | 118 | 5590 | | 14.00 | 13.95 |
| | | 134 | 5670 | | 14.00 | 13.93 |
| | | 142 | 5710 | | 14.00 | 13.89 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 14.00 | 13.99 |
| | | 122 | 5610 | | 14.00 | 13.98 |
| | | 138 | 5690 | | 14.00 | 13.96 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 14.00 | 13.89 |
| | | 122 | 5610 | | 14.00 | 13.90 |
| | | 138 | 5690 | | 14.00 | 13.91 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 10.50 | 10.38 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 10.50 | 10.41 |

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| Tx1 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11n20-HT0 | 149 | 5745 | MCS0 | 13.50 | 13.43 |
| | | 157 | 5785 | | 13.50 | 13.43 |
| | | 165 | 5825 | | 13.50 | 13.42 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 13.50 | 13.37 |
| | | 157 | 5785 | | 13.50 | 13.37 |
| | | 165 | 5825 | | 13.50 | 13.46 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 13.50 | 13.38 |
| | | 157 | 5785 | | 13.50 | 13.44 |
| | | 165 | 5825 | | 13.50 | 13.43 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 13.50 | 13.42 |
| | | 159 | 5795 | | 13.50 | 13.42 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 13.50 | 13.40 |
| | | 159 | 5795 | | 13.50 | 13.37 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 13.50 | 13.44 |
| | | 159 | 5795 | | 13.50 | 13.42 |
| 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 13.50 | 13.48 | |
| 802.11ax80-HE0 | 155 | 5775 | MCS0 | 13.50 | 13.46 | |

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| Tx2 antenna | | | | | | |
|-------------|----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11n20-HT0 | 1 | 2412 | MCS0 | 13.25 | 13.17 |
| | | 2 | 2417 | | 14.50 | 14.48 |
| | | 6 | 2437 | | 14.50 | 14.42 |
| | | 10 | 2457 | | 14.50 | 14.49 |
| | | 11 | 2462 | | 11.50 | 11.41 |
| | | 12 | 2467 | | 10.00 | 9.95 |
| | | 13 | 2472 | | 4.75 | 4.71 |
| | 802.11ax20-HE0 | 1 | 2412 | MCS0 | 13.25 | 13.19 |
| | | 2 | 2417 | | 14.50 | 14.40 |
| | | 6 | 2437 | | 14.50 | 14.37 |
| | | 10 | 2457 | | 14.50 | 14.45 |
| | | 11 | 2462 | | 11.50 | 11.39 |
| | | 12 | 2467 | | 10.00 | 9.93 |
| | | 13 | 2472 | | 4.75 | 4.63 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 13.25 | 13.20 |
| | | 6 | 2437 | | 13.50 | 13.43 |
| | | 8 | 2447 | | 10.50 | 10.41 |
| | | 9 | 2452 | | 10.25 | 10.13 |
| | | 10 | 2457 | | 7.50 | 7.37 |
| | | 11 | 2462 | | 5.50 | 5.42 |
| | 802.11n40-HE0 | 3 | 2422 | MCS0 | 13.25 | 13.18 |
| | | 6 | 2437 | | 13.50 | 13.37 |
| | | 8 | 2447 | | 10.50 | 10.45 |
| | | 9 | 2452 | | 10.25 | 10.20 |
| 10 | | 2457 | 7.50 | | 7.44 | |
| 11 | | 2462 | 5.50 | | 5.43 | |

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| Tx2 antenna | | | | | | |
|------------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11n20-HT0 | 36 | 5180 | MCS0 | 15.00 | 14.88 |
| | | 40 | 5200 | | 15.50 | 15.42 |
| | | 44 | 5220 | | 15.50 | 15.40 |
| | | 48 | 5240 | | 15.50 | 15.46 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 15.00 | 14.94 |
| | | 40 | 5200 | | 15.50 | 15.41 |
| | | 44 | 5220 | | 15.50 | 15.44 |
| | | 48 | 5240 | | 15.50 | 15.40 |
| | 802.11ax20-HE0 | 36 | 5180 | MCS0 | 15.00 | 14.87 |
| | | 40 | 5200 | | 15.50 | 15.38 |
| | | 44 | 5220 | | 15.50 | 15.46 |
| | | 48 | 5240 | | 15.50 | 15.37 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 13.50 | 13.48 |
| | | 46 | 5230 | | 15.50 | 15.44 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 13.50 | 13.40 |
| | | 46 | 5230 | | 15.50 | 15.39 |
| 802.11ax40-HE0 | 38 | 5190 | MCS0 | 13.50 | 13.43 | |
| | 46 | 5230 | | 15.50 | 15.40 | |
| 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 14.00 | 13.90 | |
| 802.11ax80-HE0 | 42 | 5210 | MCS0 | 14.00 | 13.96 | |
| 802.11ac160-VHT0 | 50 | 5250 | MCS0 | 10.00 | 9.90 | |
| 802.11ax160-HE0 | 50 | 5250 | MCS0 | 10.00 | 9.87 | |

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| Tx2 antenna | | | | | | |
|-----------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11n20-HT0 | 52 | 5260 | MCS0 | 15.00 | 14.94 |
| | | 56 | 5280 | | 15.00 | 14.87 |
| | | 60 | 5300 | | 15.00 | 14.91 |
| | | 64 | 5320 | | 14.50 | 14.45 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 15.00 | 14.88 |
| | | 56 | 5280 | | 15.00 | 14.89 |
| | | 60 | 5300 | | 15.00 | 14.95 |
| | | 64 | 5320 | | 14.50 | 14.43 |
| | 802.11ax20-HE0 | 52 | 5260 | MCS0 | 15.00 | 14.95 |
| | | 56 | 5280 | | 15.00 | 14.87 |
| | | 60 | 5300 | | 15.00 | 14.89 |
| | | 64 | 5320 | | 14.50 | 14.44 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 15.00 | 14.99 |
| | | 62 | 5310 | | 13.00 | 12.94 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 15.00 | 14.92 |
| | | 62 | 5310 | | 13.00 | 12.95 |
| | 802.11ax40-HE0 | 54 | 5270 | MCS0 | 15.00 | 14.90 |
| | | 62 | 5310 | | 13.00 | 12.96 |
| 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 12.75 | 12.70 | |
| 802.11ax80-HE0 | 58 | 5290 | MCS0 | 12.75 | 12.71 | |

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| Tx2 antenna | | | | | | |
|-------------|------------------|---------|-----------------|-----------|--|---------------------|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11n20-HT0 | 100 | 5500 | MCS0 | 14.00 | 13.89 |
| | | 120 | 5600 | | 14.00 | 13.87 |
| | | 140 | 5700 | | 14.00 | 13.93 |
| | | 144 | 5720 | | 14.00 | 13.89 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 14.00 | 13.94 |
| | | 120 | 5600 | | 14.00 | 13.91 |
| | | 140 | 5700 | | 14.00 | 13.95 |
| | | 144 | 5720 | | 14.00 | 13.90 |
| | 802.11ax20-HE0 | 100 | 5500 | MCS0 | 14.00 | 13.90 |
| | | 120 | 5600 | | 14.00 | 13.94 |
| | | 140 | 5700 | | 14.00 | 13.89 |
| | | 144 | 5720 | | 14.00 | 13.93 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 14.00 | 13.91 |
| | | 118 | 5590 | | 14.00 | 13.90 |
| | | 134 | 5670 | | 14.00 | 13.88 |
| | | 142 | 5710 | | 14.00 | 13.87 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 14.00 | 13.87 |
| | | 118 | 5590 | | 14.00 | 13.95 |
| | | 134 | 5670 | | 14.00 | 13.91 |
| | | 142 | 5710 | | 14.00 | 13.94 |
| | 802.11ax40-HE0 | 102 | 5510 | MCS0 | 14.00 | 13.94 |
| | | 118 | 5590 | | 14.00 | 13.90 |
| | | 134 | 5670 | | 14.00 | 13.89 |
| | | 142 | 5710 | | 14.00 | 13.87 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 14.00 | 13.94 |
| | | 122 | 5610 | | 14.00 | 13.98 |
| | | 138 | 5690 | | 14.00 | 13.97 |
| | 802.11ax80-HE0 | 106 | 5530 | MCS0 | 14.00 | 13.87 |
| | | 122 | 5610 | | 14.00 | 13.95 |
| | | 138 | 5690 | | 14.00 | 13.93 |
| | 802.11ac160-VHT0 | 114 | 5570 | MCS0 | 10.50 | 10.40 |
| | 802.11ax160-HE0 | 114 | 5570 | MCS0 | 10.50 | 10.38 |

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| Tx2 antenna | | | | | | |
|-------------|-----------------|---------|-----------------|-----------|--|---------------------|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11n20-HT0 | 149 | 5745 | MCS0 | 13.50 | 13.46 |
| | | 157 | 5785 | | 13.50 | 13.37 |
| | | 165 | 5825 | | 13.50 | 13.38 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 13.50 | 13.44 |
| | | 157 | 5785 | | 13.50 | 13.37 |
| | | 165 | 5825 | | 13.50 | 13.45 |
| | 802.11ax20-HE0 | 149 | 5745 | MCS0 | 13.50 | 13.46 |
| | | 157 | 5785 | | 13.50 | 13.41 |
| | | 165 | 5825 | | 13.50 | 13.39 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 13.50 | 13.46 |
| | | 159 | 5795 | | 13.50 | 13.37 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 13.50 | 13.42 |
| | | 159 | 5795 | | 13.50 | 13.45 |
| | 802.11ax40-HE0 | 151 | 5755 | MCS0 | 13.50 | 13.38 |
| | | 159 | 5795 | | 13.50 | 13.38 |
| | 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 13.50 | 13.45 |
| | 802.11ax80-HE0 | 155 | 5775 | MCS0 | 13.50 | 13.46 |

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Bluetooth conducted power table:

| Mode | Channel | Frequency (MHz) | 1Mbps | | 2Mbps | | 3Mbps | |
|--------|---------|-----------------|--|---------------------|--|---------------------|--|---------------------|
| | | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| BR/EDR | CH 00 | 2402 | 11.00 | 9.22 | 7.00 | 6.90 | 7.00 | 6.86 |
| | CH 39 | 2441 | | 9.23 | | 6.99 | | 6.96 |
| | CH 78 | 2480 | | 9.24 | | 6.82 | | 6.79 |

| Mode | Channel | Frequency (MHz) | GFSK | |
|------------------|---------|-----------------|--|----------------------------|
| | | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| Bluetooth 4.0_1M | CH 37 | 2402 | 7 | 6.08 |
| | CH 17 | 2440 | | 6.04 |
| | CH 39 | 2480 | | 6.13 |

| Mode | Channel | Frequency (MHz) | GFSK | |
|------------------|---------|-----------------|--|----------------------------|
| | | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| Bluetooth 4.0_2M | CH 37 | 2402 | 7 | 5.27 |
| | CH 17 | 2440 | | 5.21 |
| | CH 39 | 2480 | | 5.31 |

| Mode | Channel | Frequency (MHz) | GFSK | |
|------------------|---------|-----------------|--|----------------------------|
| | | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| Bluetooth 5.0_S8 | CH 37 | 2402 | 7 | 5.99 |
| | CH 17 | 2440 | | 5.98 |
| | CH 39 | 2480 | | 6.02 |

| Mode | Channel | Frequency (MHz) | GFSK | |
|------------------|---------|-----------------|--|----------------------------|
| | | | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average Output Power (dBm) |
| Bluetooth 5.0_S2 | CH 37 | 2402 | 7 | 5.96 |
| | CH 17 | 2440 | | 5.97 |
| | CH 39 | 2480 | | 6.08 |

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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 FCC guidance.

Notebook mode (corresponding Notebook mode power)

SAR is measured with the display screen opened at 90 degree to the keyboard and keyboard bottom touch against the flat phantom.

Tablet mode (corresponding Tablet mode power)

Back/edges_0mm

Whatever notebook mode or tablet mode, standalone SAR was measured with SISO power and MIMO power respectively and separately.

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.

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

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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 Tx2 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)
10. Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

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| Mode | Max. tune-up power(dBm) | Max. tune-up power(mW) | Back side | | | | Top side | | | | Botoom side | | | |
|------------------|-------------------------|------------------------|-------------------------------|-------------------|----------------------|----------------------|-------------------------------|-------------------|----------------------|----------------------|-------------------------------|-------------------|----------------------|----------------------|
| | | | Test separation distance (mm) | Calculation value | Exclusion thresholds | Require SAR testing? | Test separation distance (mm) | Calculation value | Exclusion thresholds | Require SAR testing? | Test separation distance (mm) | Calculation value | Exclusion thresholds | Require SAR testing? |
| WLAN Tx1 2.45GHz | 20 | 100.000 | 7.85 | 20.029 | 3.000 | YES | Less then 5 | 31.445 | 3.000 | YES | 224.9 | >20cm | >20cm | NO |
| WLAN Tx2 2.45GHz | 19 | 79.433 | 7.85 | 15.909 | 3.000 | YES | Less then 5 | 24.978 | 3.000 | YES | 224.9 | >20cm | >20cm | NO |
| WLAN Tx1 5GHz | 19 | 79.433 | 7.85 | 24.422 | 3.000 | YES | Less then 5 | 38.342 | 3.000 | YES | 224.9 | >20cm | >20cm | NO |
| WLAN Tx2 5GHz | 18.5 | 70.795 | 7.85 | 21.766 | 3.000 | YES | Less then 5 | 34.173 | 3.000 | YES | 224.9 | >20cm | >20cm | NO |
| Bluetooth_Tx2 | 11 | 12.589 | 7.85 | 2.526 | 3.000 | NO | Less then 5 | 3.965 | 3.000 | YES | 224.9 | >20cm | >20cm | NO |
| Mode | Max. tune-up power(dBm) | Max. tune-up power(mW) | Right side | | | | Left side | | | | | | | |
| | | | Test separation distance (mm) | Calculation value | Exclusion thresholds | Require SAR testing? | Test separation distance (mm) | Calculation value | Exclusion thresholds | Require SAR testing? | | | | |
| WLAN Tx1 2.45GHz | 20 | 100.000 | 92.13 | 424.445 | 516.704 | NO | 167.93 | 1182.445 | 1274.704 | NO | | | | |
| WLAN Tx2 2.45GHz | 19 | 79.433 | 167.93 | 1181.798 | 1274.704 | NO | 92.13 | 423.798 | 516.704 | NO | | | | |
| WLAN Tx1 5GHz | 19 | 79.433 | 92.13 | 425.134 | 483.450 | NO | 167.93 | 1183.134 | 1241.450 | NO | | | | |
| WLAN Tx2 5GHz | 18.5 | 70.795 | 167.93 | 1182.717 | 1241.450 | NO | 92.13 | 424.717 | 483.450 | NO | | | | |
| Bluetooth_Tx2 | 11 | 12.589 | 167.93 | 1179.697 | 1274.550 | NO | 92.13 | 421.697 | 516.550 | NO | | | | |

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1.6 triggering verification for power reduction

The device is a convertible laptop computer with WLAN/BT feature.

Based on KDB inquiry, there are the hall sensors in the device, and the sensors can detect the operation mode transformation and then adjust the maximum power accordingly.

There are three hall sensors and corresponding hall sensor magnets in this device, and hall sensors on/off state will be decided based on the magnetic field change.

When the hall sensor state change, there will be a sensor event notification/command happened then cause the corresponding TX power setting.

For the verification testing of power reduction mechanisms, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

When the device is operated in the notebook mode/media mode, the power reduction will not be triggered, but when it is operating in the tablet mode, the power reduction will be triggered. Besides, the power reduction is a single fixed level of power reduction.

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1.6.1 Results and conclusion

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

Verification Testing of Power for Notebook mode

| Antenna | Operation mode | Lid angle | 802.11b | 802.11a 5.2G | 802.11a 5.3G | 802.11n(40M) 5.6G | 802.11n(40M) 5.8G | |
|---------|----------------|-----------|---------|--------------|--------------|-------------------|-------------------|-------|
| Tx1 | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | |
| | | 10° | n/a | n/a | n/a | n/a | n/a | |
| | | 20° | n/a | n/a | n/a | n/a | n/a | |
| | | 30° | n/a | n/a | n/a | n/a | n/a | |
| | | 40° | 19.97 | 18.92 | 18.96 | 16.89 | 16.32 | |
| | NB mode | 35° | 19.98 | 18.99 | 18.95 | 16.95 | 16.38 | |
| | | 30° | n/a | n/a | n/a | n/a | n/a | |
| | Lid close | 31° | n/a | n/a | n/a | n/a | n/a | |
| | | 32° | n/a | n/a | n/a | n/a | n/a | |
| | | 33° | n/a | n/a | n/a | n/a | n/a | |
| | | 34° | n/a | n/a | n/a | n/a | n/a | |
| | | 35° | 19.95 | 18.85 | 18.83 | 16.98 | 16.40 | |
| | NB mode | 36° | 19.82 | 18.83 | 18.84 | 16.92 | 16.44 | |
| | | 37° | 19.97 | 18.89 | 18.84 | 16.89 | 16.38 | |
| | | 38° | 19.97 | 18.83 | 18.98 | 16.91 | 16.50 | |
| | | 39° | 20.00 | 18.95 | 18.82 | 16.97 | 16.43 | |
| | | 40° | 19.86 | 18.96 | 18.89 | 16.81 | 16.41 | |
| | | 50° | 19.88 | 18.94 | 18.89 | 16.83 | 16.32 | |
| | | 60° | 19.89 | 18.87 | 18.90 | 16.92 | 16.39 | |
| | | 70° | 19.87 | 18.87 | 18.95 | 16.95 | 16.31 | |
| | | 80° | 19.83 | 18.87 | 18.81 | 16.85 | 16.47 | |
| | | 90° | 19.89 | 19.00 | 18.93 | 16.88 | 16.48 | |
| | | 100° | 19.93 | 18.94 | 18.90 | 16.99 | 16.44 | |
| | | 110° | 19.98 | 18.87 | 18.88 | 16.91 | 16.36 | |
| | | 120° | 19.87 | 18.85 | 18.99 | 16.82 | 16.46 | |
| | | 130° | 20.00 | 18.86 | 18.82 | 16.97 | 16.38 | |
| | | 135° | 19.89 | 18.82 | 18.93 | 16.87 | 16.47 | |
| | | NB mode | 135° | 19.99 | 18.92 | 18.97 | 16.86 | 16.50 |
| | | | 125° | 19.82 | 18.81 | 18.82 | 16.93 | 16.47 |
| | | | 115° | 19.85 | 18.96 | 18.82 | 16.98 | 16.38 |
| | 105° | | 19.92 | 18.82 | 18.96 | 16.90 | 16.37 | |
| | 95° | | 19.82 | 18.85 | 18.91 | 16.99 | 16.49 | |
| | 85° | | 19.87 | 18.88 | 18.81 | 16.99 | 16.36 | |
| | 75° | | 19.98 | 18.81 | 18.87 | 16.98 | 16.49 | |
| | 65° | | 19.99 | 18.90 | 18.92 | 16.84 | 16.38 | |
| | 55° | | 19.92 | 18.89 | 18.81 | 16.94 | 16.50 | |
| | 45° | | 19.93 | 18.96 | 18.86 | 16.95 | 16.48 | |
| | 35° | | 19.94 | 18.89 | 18.86 | 16.91 | 16.38 | |
| | Lid close | | 25° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | |
| | | 35° | 19.82 | 18.82 | 18.98 | 16.85 | 16.42 | |
| | NB mode | 34° | n/a | n/a | n/a | n/a | n/a | |
| | | 34° | n/a | n/a | n/a | n/a | n/a | |
| | Lid close | 33° | n/a | n/a | n/a | n/a | n/a | |
| | | 32° | n/a | n/a | n/a | n/a | n/a | |
| | | 31° | n/a | n/a | n/a | n/a | n/a | |
| | | 30° | n/a | n/a | n/a | n/a | n/a | |
| | | 20° | n/a | n/a | n/a | n/a | n/a | |
| | | 10° | n/a | n/a | n/a | n/a | n/a | |
| | | 0° | n/a | n/a | n/a | n/a | n/a | |

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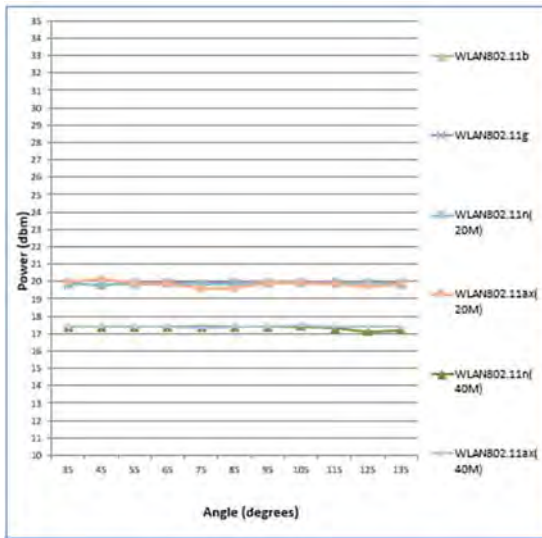
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| Antenna | Operation mode | Lid angle | 802.11b | 802.11a 5.2G | 802.11n(40M) 5.3G | 802.11n(40M) 5.6G | 802.11n(40M) 5.8G |
|---------|----------------|-----------|---------|--------------|-------------------|-------------------|-------------------|
| Tx2 | Lid close | 0° | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | NB mode | 40° | 18.81 | 18.39 | 17.96 | 16.95 | 16.83 |
| | | 35° | 18.96 | 18.33 | 17.94 | 16.83 | 17.00 |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | Lid close | 31° | n/a | n/a | n/a | n/a | n/a |
| | | 32° | n/a | n/a | n/a | n/a | n/a |
| | | 33° | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a |
| | NB mode | 35° | 18.90 | 18.34 | 17.97 | 16.97 | 16.93 |
| | | 36° | 18.87 | 18.45 | 17.90 | 16.94 | 16.97 |
| | | 37° | 18.89 | 18.34 | 17.91 | 16.99 | 16.85 |
| | | 38° | 18.93 | 18.46 | 17.81 | 16.86 | 16.85 |
| | | 39° | 18.94 | 18.39 | 17.82 | 16.87 | 16.82 |
| | | 40° | 18.88 | 18.49 | 18.00 | 16.85 | 16.97 |
| | | 50° | 18.93 | 18.48 | 17.85 | 16.92 | 17.00 |
| | | 60° | 18.93 | 18.50 | 17.82 | 16.84 | 16.86 |
| | | 70° | 18.92 | 18.41 | 17.82 | 16.85 | 16.95 |
| | | 80° | 18.81 | 18.41 | 17.85 | 16.91 | 16.85 |
| | | 90° | 18.97 | 18.40 | 17.85 | 16.96 | 16.97 |
| | | 100° | 18.98 | 18.44 | 17.97 | 16.92 | 16.99 |
| | | 110° | 18.92 | 18.33 | 17.99 | 16.88 | 16.89 |
| | | 120° | 18.86 | 18.36 | 17.81 | 16.85 | 16.96 |
| | | 130° | 18.91 | 18.31 | 17.87 | 16.95 | 16.89 |
| | | 135° | 18.81 | 18.39 | 17.83 | 16.86 | 17.00 |
| | | NB mode | 135° | 18.90 | 18.44 | 17.86 | 16.95 |
| | 125° | | 18.82 | 18.33 | 17.93 | 16.91 | 16.88 |
| | 115° | | 18.81 | 18.37 | 17.84 | 16.83 | 16.95 |
| | 105° | | 18.94 | 18.31 | 17.92 | 16.97 | 16.83 |
| | 95° | | 18.96 | 18.40 | 17.90 | 16.86 | 16.95 |
| | 85° | | 18.98 | 18.36 | 17.82 | 16.99 | 16.85 |
| | 75° | | 18.87 | 18.34 | 17.88 | 16.86 | 16.88 |
| | 65° | | 18.82 | 18.32 | 17.91 | 16.97 | 17.00 |
| | 55° | | 18.85 | 18.32 | 17.96 | 16.84 | 16.99 |
| | 45° | | 18.92 | 18.33 | 17.86 | 16.84 | 16.89 |
| | 35° | 18.95 | 18.44 | 17.99 | 16.88 | 16.95 | |
| | Lid close | 25° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | NB mode | 35° | 18.95 | 18.33 | 17.98 | 16.87 | 16.89 |
| | | 34° | n/a | n/a | n/a | n/a | n/a |
| | Lid close | 33° | n/a | n/a | n/a | n/a | n/a |
| | | 32° | n/a | n/a | n/a | n/a | n/a |
| | | 31° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a |
| 10° | | n/a | n/a | n/a | n/a | n/a | |
| 0° | | n/a | n/a | n/a | n/a | n/a | |

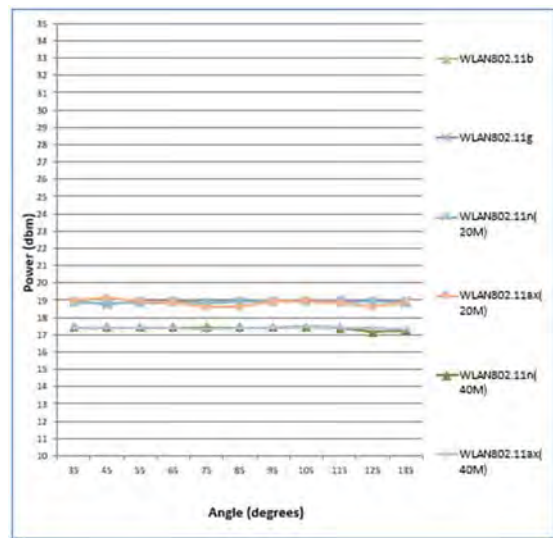
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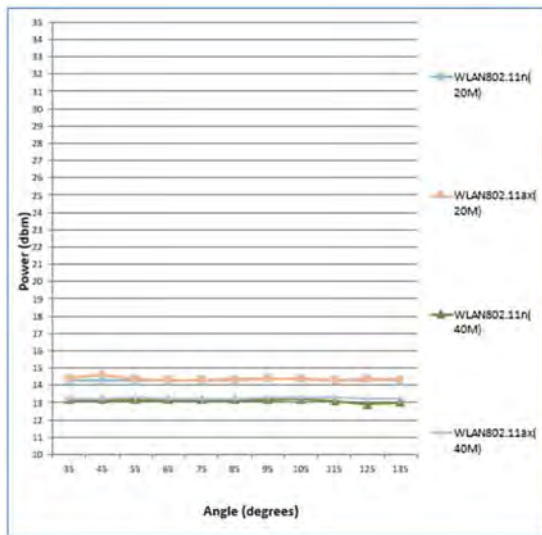
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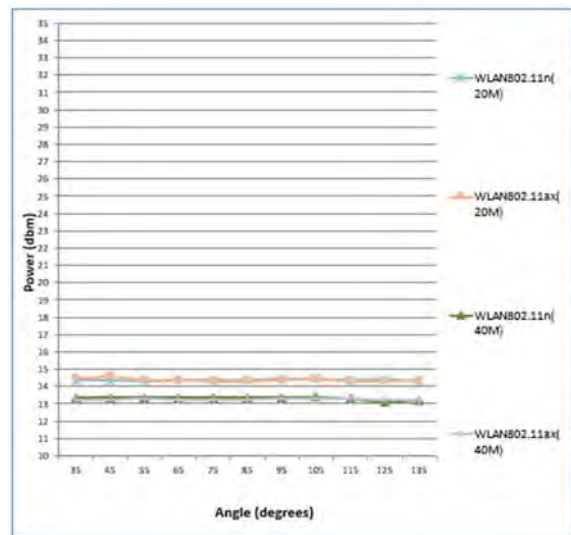
2.4GHz Tx1(SISO)



2.4GHz Tx2(SISO)



2.4GHz Tx1(MIMO)

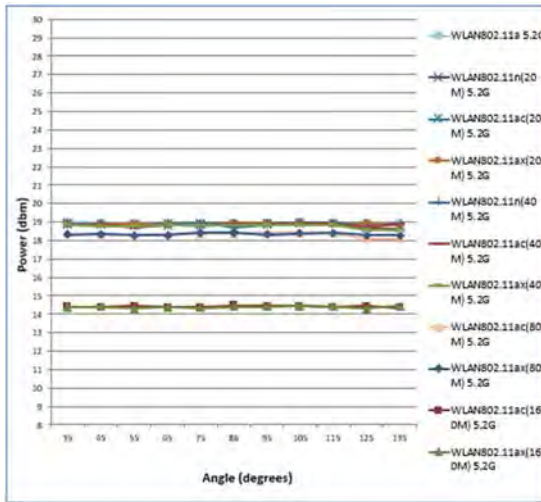


2.4GHz Tx2(MIMO)

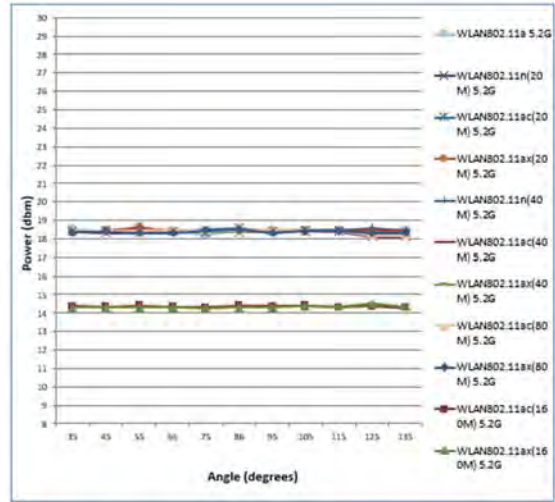
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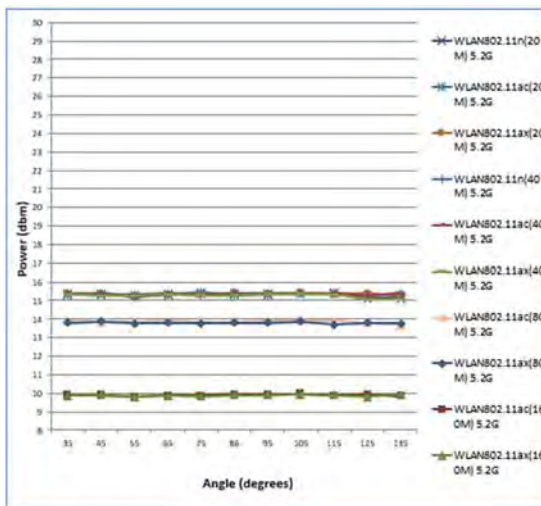
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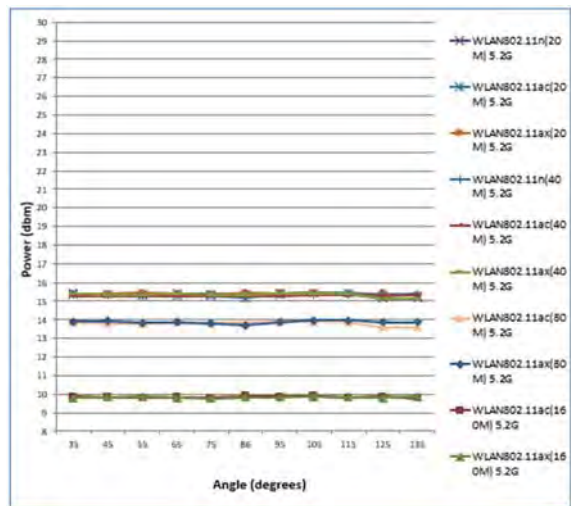
5.2GHz Tx1(SISO)



5.2GHz Tx2(SISO)



5.2GHz Tx1(MIMO)

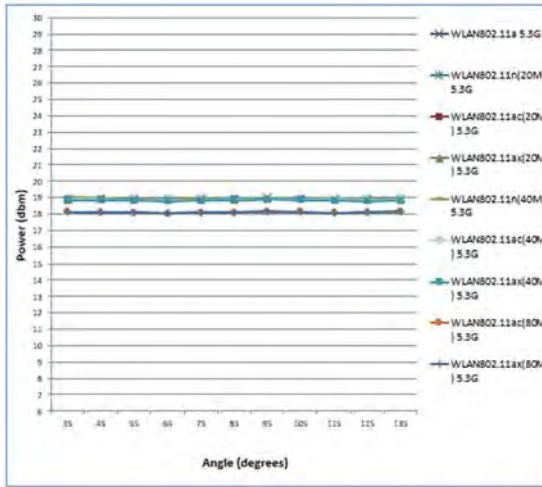


5.2GHz Tx2(MIMO)

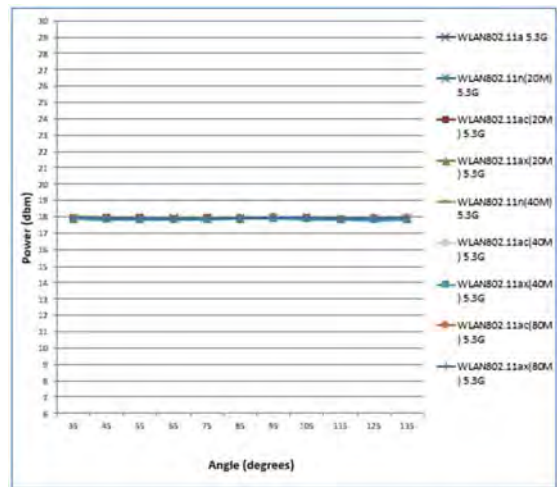
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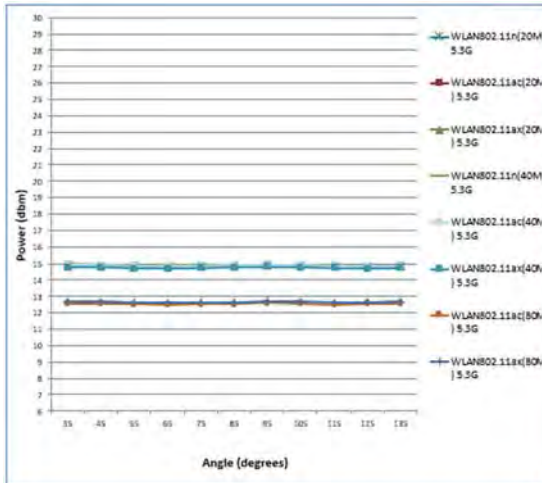
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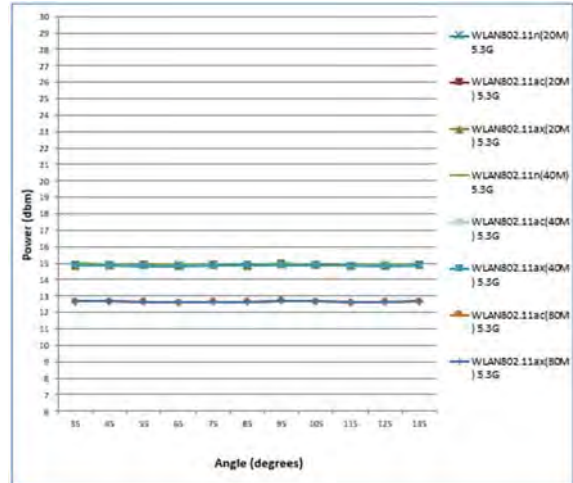
5.3GHz Tx1(SISO)



5.3GHz Tx2(SISO)



5.3GHz Tx1(MIMO)

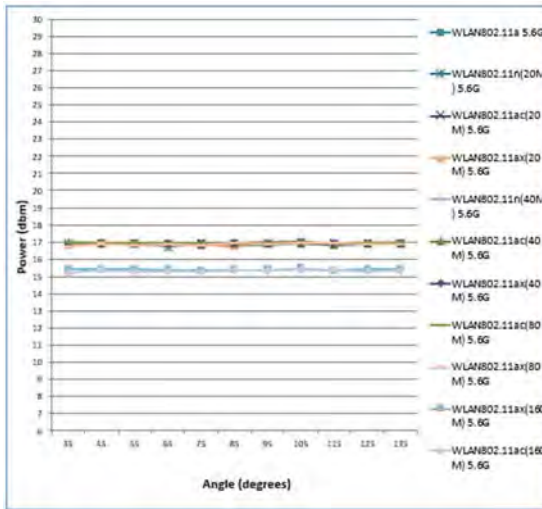


5.3GHz Tx2(MIMO)

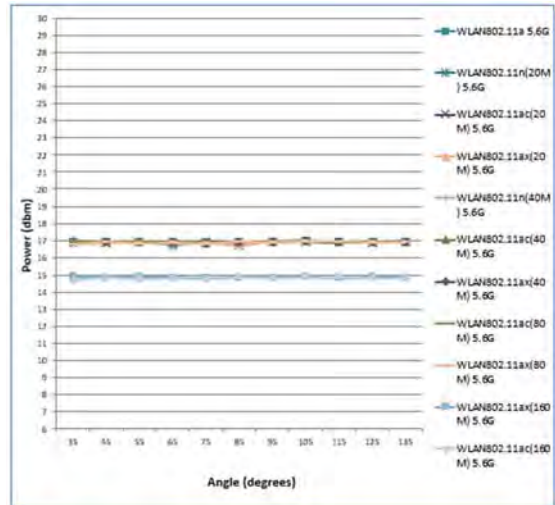
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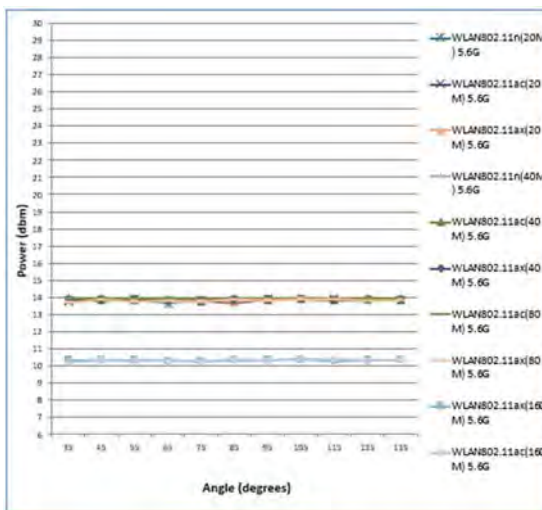
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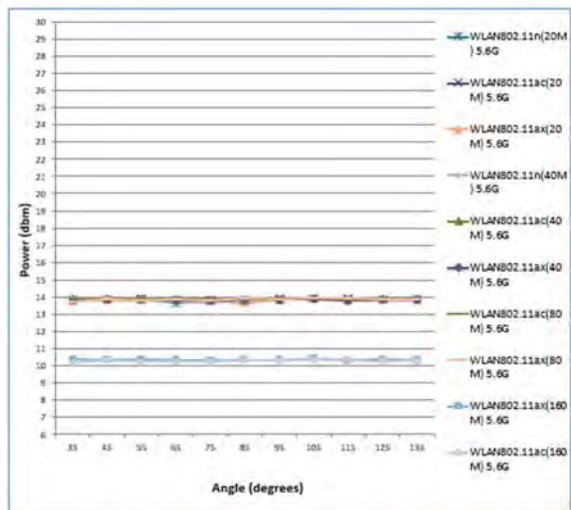
5.6GHz Tx1(SISO)



5.6GHz Tx2(SISO)



5.6GHz Tx1(MIMO)

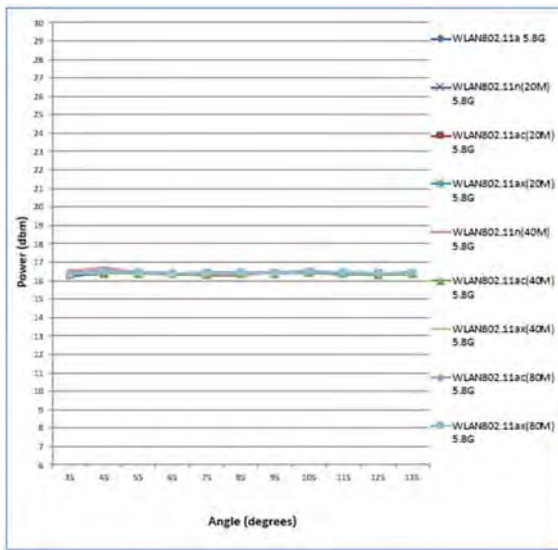


5.6GHz Tx2(MIMO)

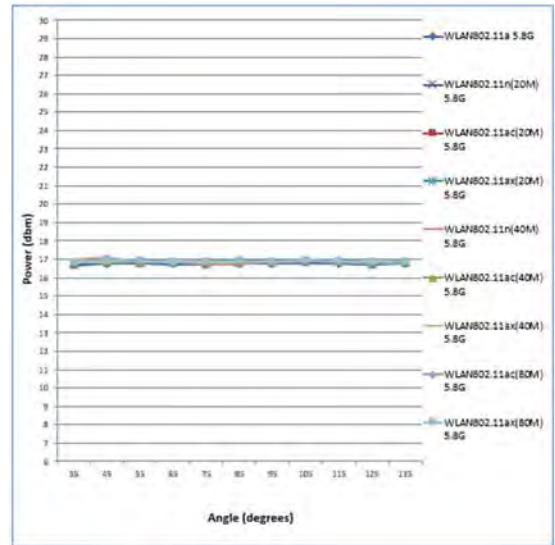
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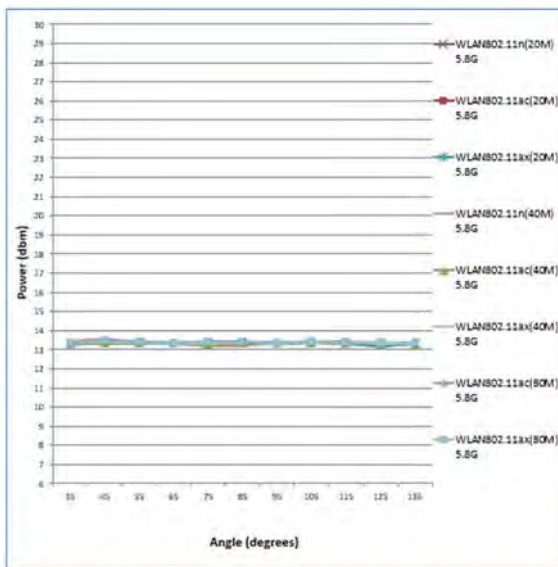
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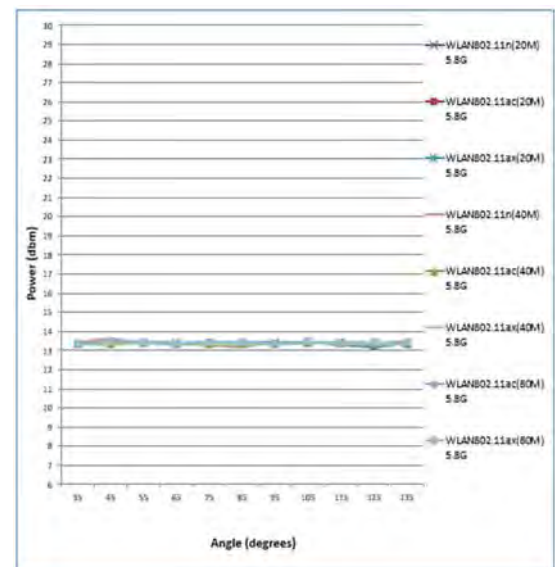
5.8GHz Tx1(SISO)



5.8GHz Tx2(SISO)



5.8GHz Tx1(MIMO)



5.8GHz Tx2(MIMO)

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Verification Testing of Power for Media mode and Tablet mode

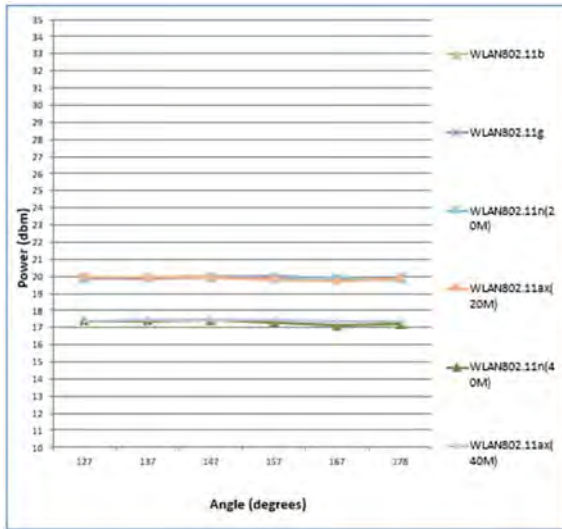
| Antenna | Operation mode | Lid angle | 802.11b | 802.11a 5.2G | 802.11a 5.3G | 802.11n(40M) 5.6G | 802.11n(40M) 5.8G |
|---------|----------------|-----------|---------|--------------|--------------|-------------------|-------------------|
| Tx1 | Media mode | 127° | 19.96 | 18.89 | 18.91 | 16.88 | 16.36 |
| | | 137° | 19.81 | 18.92 | 18.91 | 16.81 | 16.44 |
| | | 147° | 19.84 | 18.87 | 18.98 | 16.90 | 16.34 |
| | | 157° | 19.86 | 18.96 | 18.95 | 16.86 | 16.34 |
| | | 167° | 19.99 | 18.89 | 18.90 | 16.85 | 16.45 |
| | | 177° | 19.88 | 18.86 | 18.91 | 16.96 | 16.34 |
| | Tablet mode | 178° | 19.99 | 14.85 | 14.96 | 13.40 | 12.94 |
| | | 173° | 19.98 | 19.00 | 18.94 | 16.92 | 16.34 |
| | | 174° | 19.90 | 18.91 | 18.90 | 16.85 | 16.43 |
| | | 175° | 19.94 | 18.83 | 18.94 | 16.98 | 16.35 |
| | | 176° | 19.81 | 18.83 | 18.81 | 16.90 | 16.39 |
| | | 177° | 19.92 | 18.99 | 18.84 | 17.00 | 16.31 |
| | Media mode | 178° | 19.97 | 14.93 | 14.90 | 13.34 | 12.92 |
| | | 168° | 19.99 | 18.97 | 18.96 | 16.99 | 16.50 |
| | | 173° | 19.95 | 18.92 | 18.88 | 16.85 | 16.40 |
| | | 178° | 19.84 | 14.85 | 14.96 | 13.35 | 12.91 |
| | | 177° | 19.97 | 18.92 | 18.90 | 16.88 | 16.35 |
| | | 176° | 19.89 | 18.81 | 18.92 | 16.96 | 16.50 |
| | Media mode | 175° | 19.99 | 18.93 | 18.90 | 16.94 | 16.32 |
| | | 174° | 19.99 | 18.81 | 18.96 | 16.88 | 16.36 |
| | | 173° | 19.93 | 18.85 | 18.82 | 16.82 | 16.50 |
| | | 163° | 19.97 | 18.82 | 18.92 | 17.00 | 16.35 |
| | | 153° | 19.85 | 18.88 | 18.84 | 16.95 | 16.42 |
| | | 143° | 19.97 | 18.86 | 18.85 | 16.98 | 16.35 |
| | | 133° | 19.90 | 18.94 | 18.91 | 17.00 | 16.48 |
| | | 127° | 19.88 | 18.86 | 18.96 | 16.87 | 16.43 |

| Antenna | Operation mode | Lid angle | 802.11b | 802.11a 5.2G | 802.11n(40M) 5.3G | 802.11n(40M) 5.6G | 802.11n(40M) 5.8G |
|---------|----------------|-----------|---------|--------------|-------------------|-------------------|-------------------|
| Tx2 | Media mode | 127° | 18.84 | 18.41 | 18.00 | 16.84 | 16.82 |
| | | 137° | 18.89 | 18.48 | 17.99 | 17.00 | 16.84 |
| | | 147° | 18.95 | 18.40 | 17.88 | 16.91 | 16.89 |
| | | 157° | 18.81 | 18.50 | 17.87 | 17.00 | 16.81 |
| | | 167° | 18.98 | 18.45 | 17.90 | 16.94 | 16.94 |
| | | 177° | 18.92 | 18.33 | 17.95 | 17.00 | 16.96 |
| | Tablet mode | 178° | 17.84 | 13.92 | 13.35 | 13.34 | 15.48 |
| | | 173° | 18.99 | 18.37 | 18.00 | 16.87 | 16.95 |
| | | 174° | 18.85 | 18.36 | 17.82 | 16.83 | 16.85 |
| | | 175° | 18.98 | 18.41 | 17.94 | 16.85 | 16.90 |
| | | 176° | 18.85 | 18.50 | 17.89 | 16.91 | 16.89 |
| | | 177° | 18.90 | 18.45 | 17.90 | 16.82 | 16.97 |
| | Media mode | 178° | 18.00 | 13.93 | 13.49 | 13.45 | 15.31 |
| | | 168° | 18.97 | 18.47 | 17.96 | 16.90 | 16.82 |
| | | 173° | 18.84 | 18.34 | 17.94 | 16.94 | 16.89 |
| | | 178° | 17.99 | 14.00 | 13.50 | 13.38 | 15.40 |
| | | 177° | 18.94 | 18.46 | 17.96 | 16.93 | 16.92 |
| | | 176° | 18.90 | 18.45 | 17.84 | 16.98 | 16.87 |
| | Media mode | 175° | 18.85 | 18.46 | 17.94 | 16.96 | 16.95 |
| | | 174° | 18.90 | 18.46 | 17.98 | 16.86 | 16.93 |
| | | 173° | 18.85 | 18.33 | 17.96 | 16.82 | 16.98 |
| | | 163° | 18.93 | 18.49 | 17.84 | 16.92 | 16.84 |
| | | 153° | 18.88 | 18.46 | 17.97 | 16.92 | 16.89 |
| | | 143° | 18.81 | 18.38 | 17.88 | 16.95 | 16.90 |
| | | 133° | 18.95 | 18.42 | 17.93 | 16.98 | 16.97 |
| | | 127° | 18.94 | 18.43 | 18.00 | 16.94 | 16.96 |

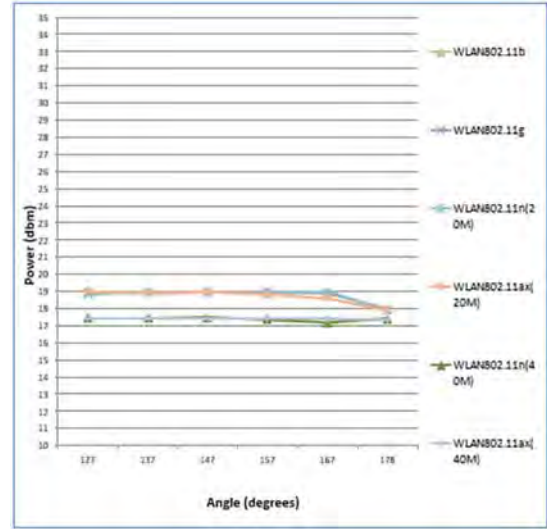
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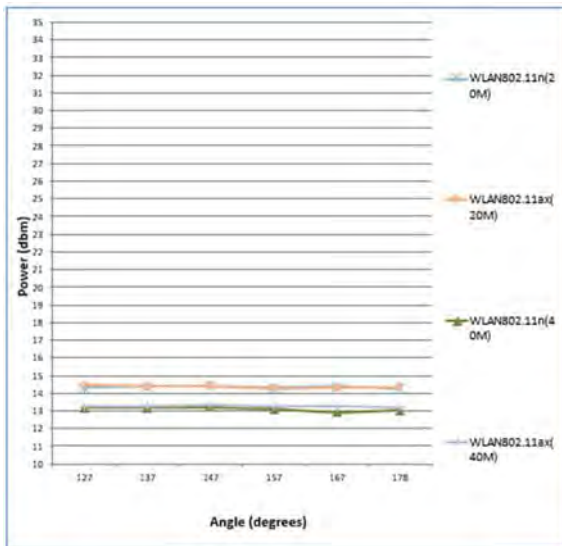
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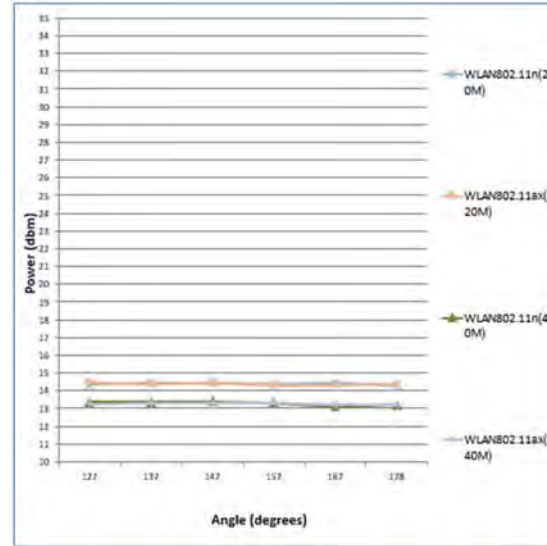
2.4GHz Tx1(SISO)



2.4GHz Tx2(SISO)



2.4GHz Tx1(MIMO)

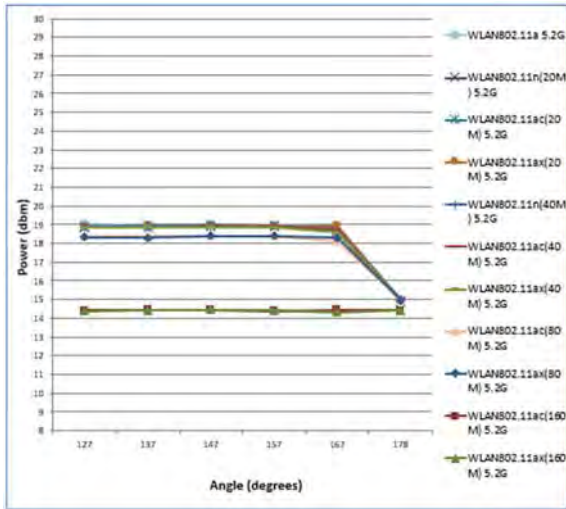


2.4GHz Tx2(MIMO)

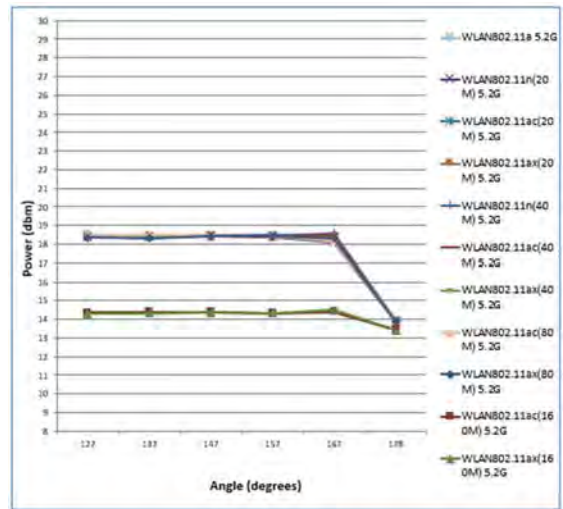
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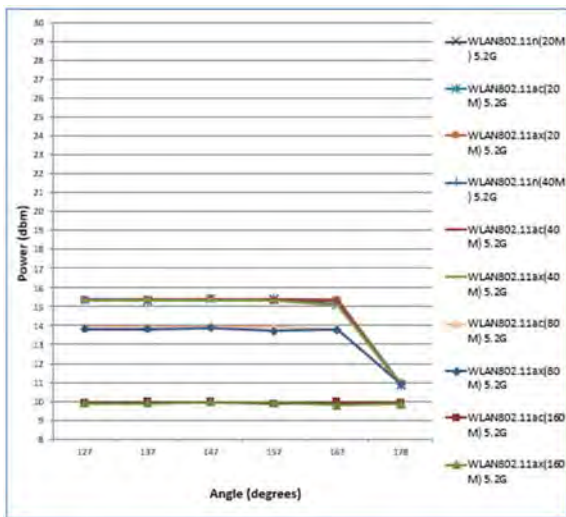
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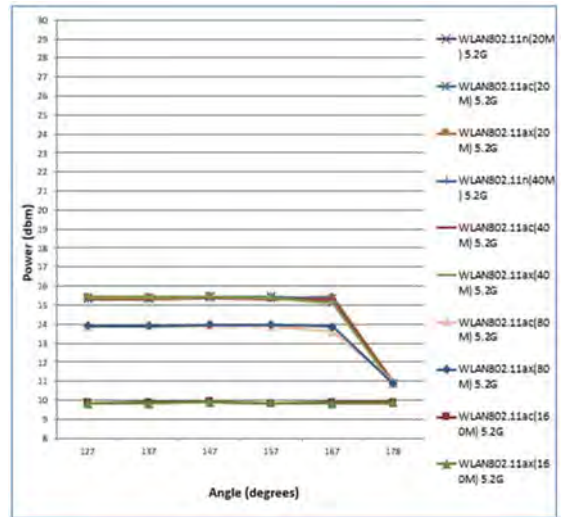
5.2GHz Tx1(SISO)



5.2GHz Tx2(SISO)



5.2GHz Tx1(MIMO)

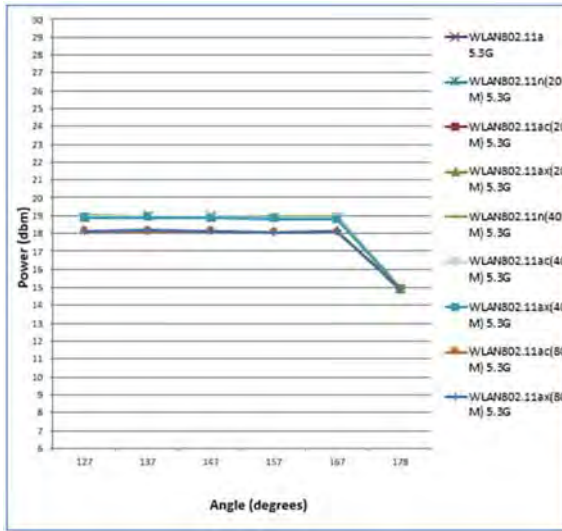


5.2GHz Tx2(MIMO)

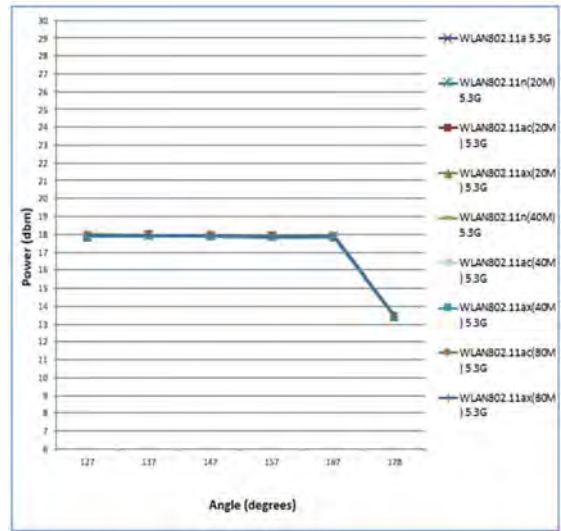
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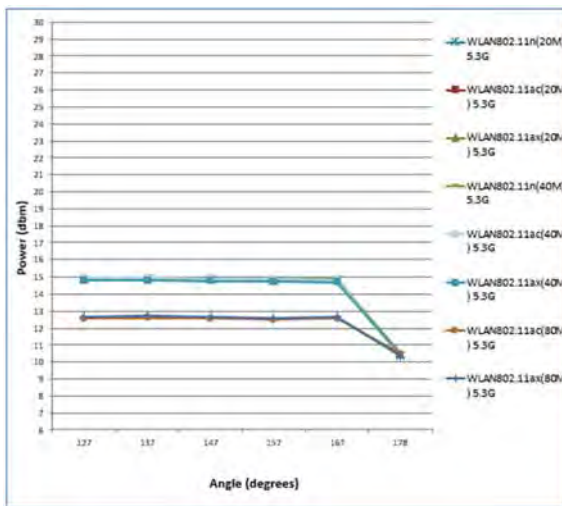
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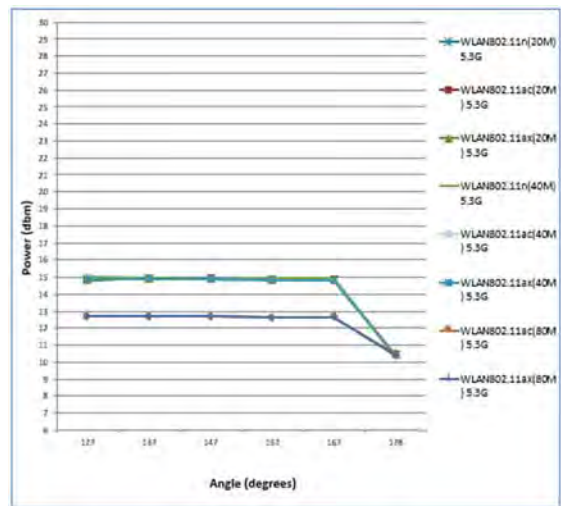
5.3GHz Tx1(SISO)



5.3GHz Tx2(SISO)



5.3GHz Tx1(MIMO)

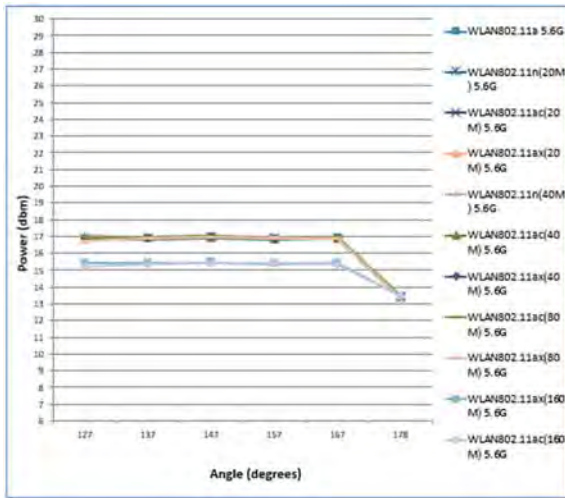


5.3GHz Tx2(MIMO)

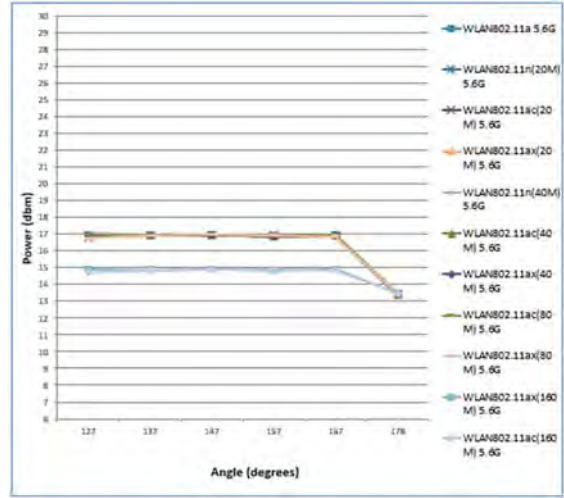
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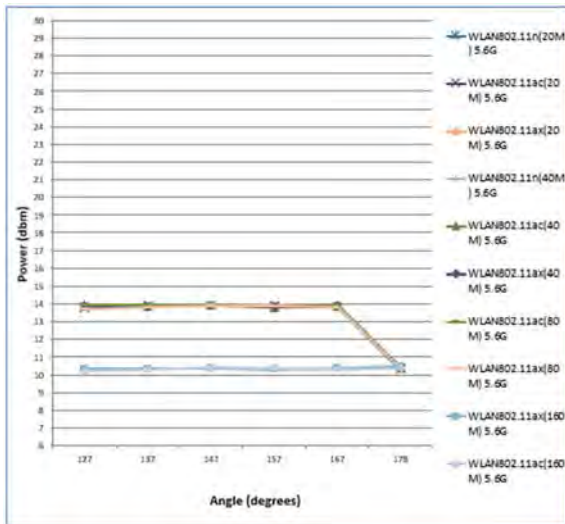
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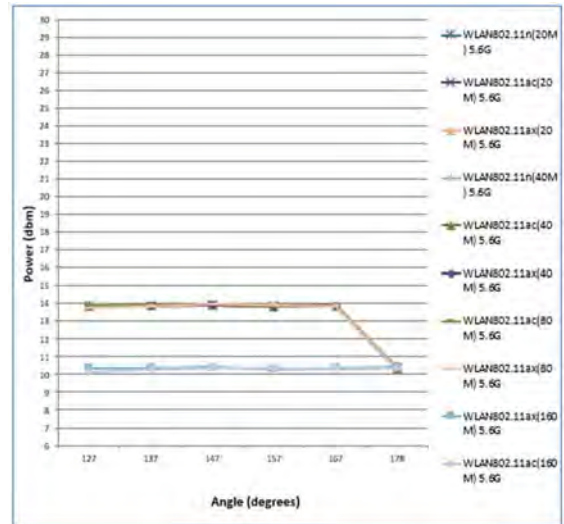
5.6GHz Tx1(SISO)



5.6GHz Tx2(SISO)



5.6GHz Tx1(MIMO)

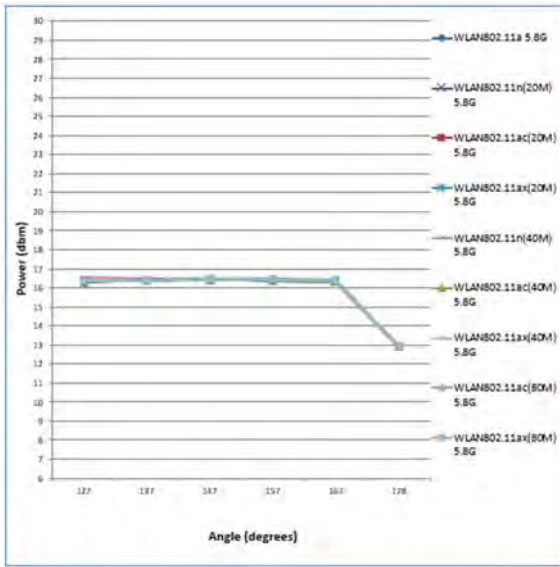


5.6GHz Tx2(MIMO)

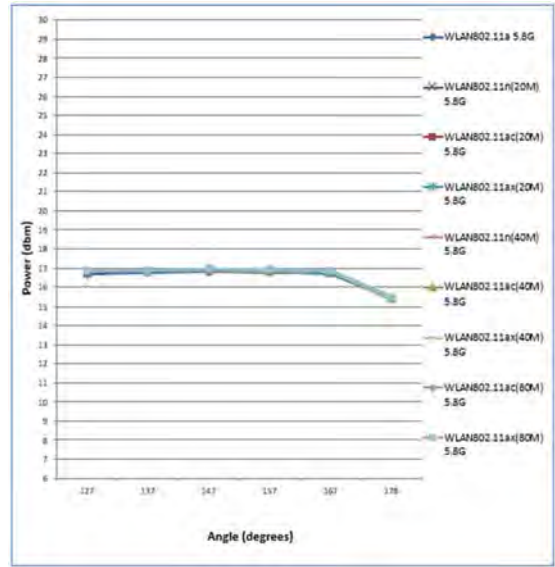
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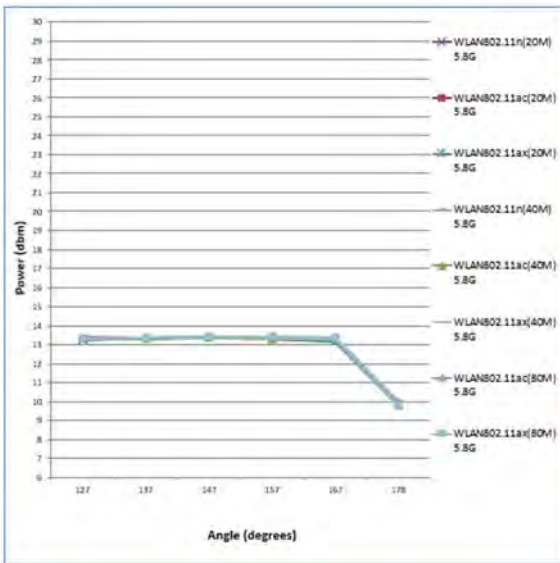
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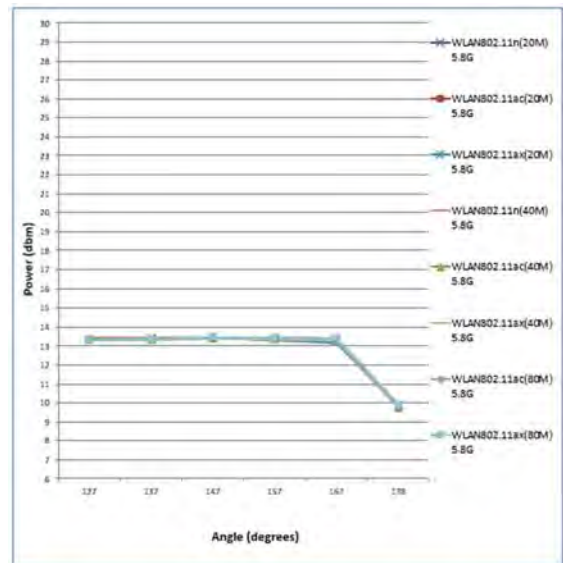
5.8GHz Tx1(SISO)



5.8GHz Tx2(SISO)



5.8GHz Tx1(MIMO)



5.8GHz Tx2(MIMO)

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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 $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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

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 in tissue simulating liquid. The probe is equipped with an optical surface detector system.
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.

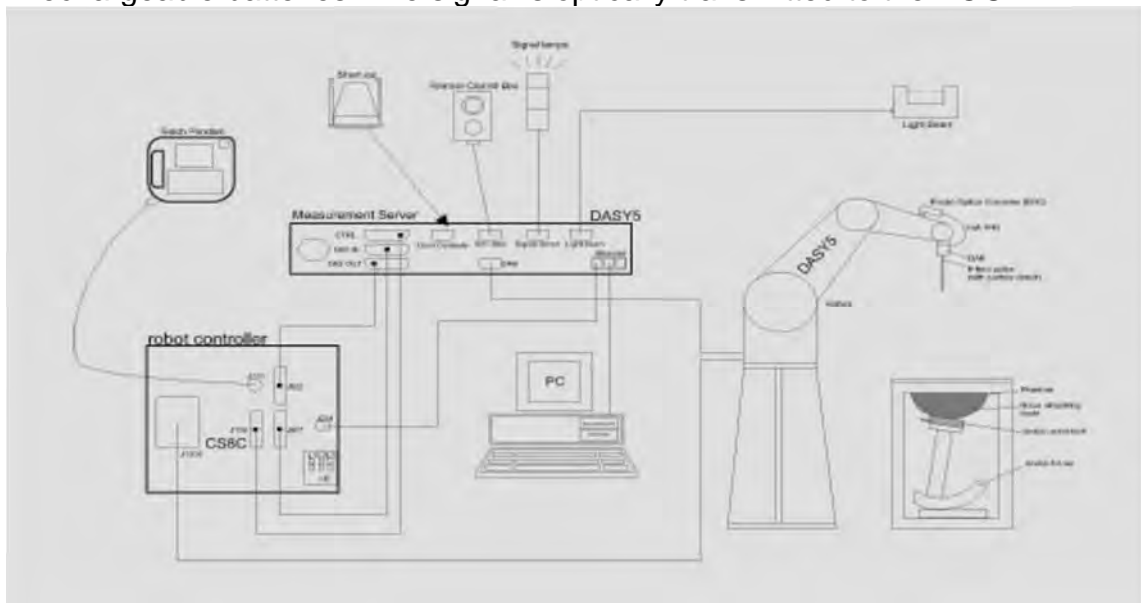


Fig. a The block diagram of SAR system

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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.
9. 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 Conversion Factors (CF) for HSL 2450/5200/5300/5600/5800 MHz Additional CF for other liquids and frequencies upon request | |
| Frequency | 10 MHz to > 6 GHz | |
| Directivity | ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis) | |
| Dynamic Range | 10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g) | |
| Dimensions | Tip diameter: 2.5 mm | |
| Application | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. | |


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PHANTOM

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

DEVICE HOLDER

| | | |
|--------------|---|---|
| Construction | The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks. |  <p style="text-align: center;">Device Holder</p> |
|--------------|---|---|

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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 $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (frequency $\leq 3 \text{ GHz}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (frequency $> 3 \text{ GHz}$) 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.

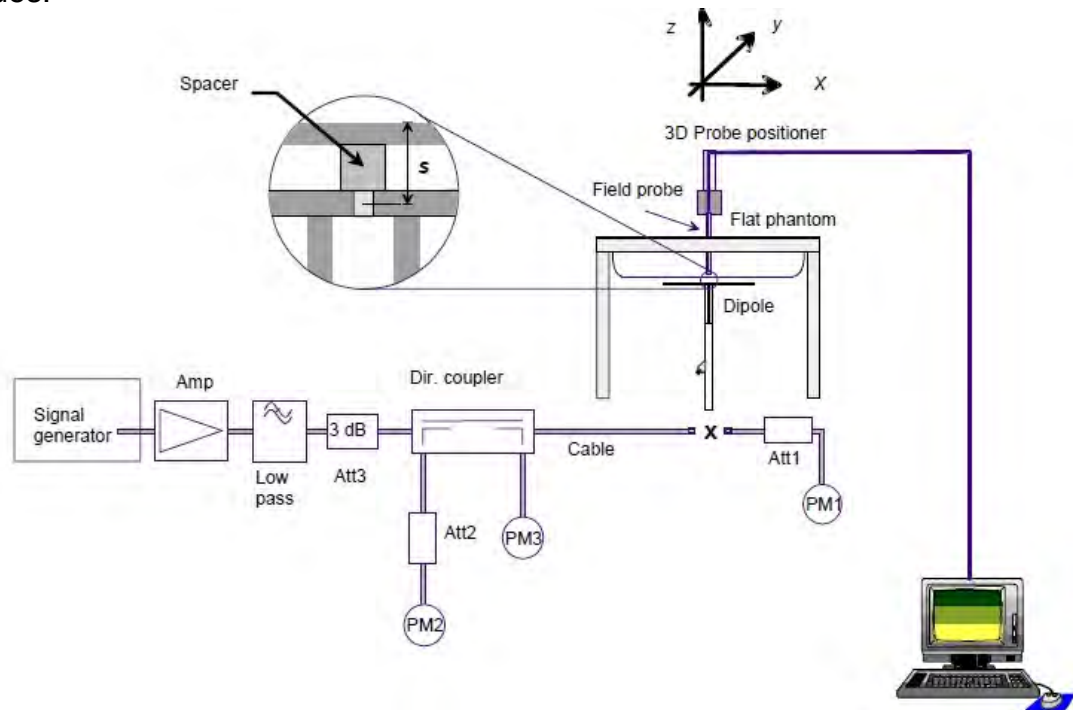


Fig. b The block diagram of system verification

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| Validation Kit | S/N | Frequency (MHz) | | 1W Target SAR-1g (mW/g) | pin=250mW Measured SAR-1g (mW/g) | Measured SAR-1g normalized to 1W (mW/g) | Deviation (%) | Measured Date |
|----------------|------|-----------------|------|-------------------------|----------------------------------|---|---------------|---------------|
| D2450V2 | 727 | 2450 | Head | 53 | 14.10 | 56.4 | 6.42% | Dec, 12, 2019 |
| Validation Kit | S/N | Frequency (MHz) | | 1W Target SAR-1g (mW/g) | Pin=100mW Measured SAR-1g (mW/g) | Measured SAR-1g normalized to 1W (mW/g) | Deviation (%) | Measured Date |
| D5GHzV2 | 1023 | 5200 | Head | 79.2 | 8.06 | 80.6 | 1.77% | Dec, 13, 2019 |
| | | 5300 | Head | 82.6 | 8.38 | 83.8 | 1.45% | Dec, 14, 2019 |
| | | 5600 | Head | 85.7 | 8.31 | 83.1 | -3.03% | Dec, 15, 2019 |
| | | 5800 | Head | 80.4 | 8.13 | 81.3 | 1.12% | Dec, 16, 2019 |

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 Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

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 $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (Frequency $\leq 3\text{G}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (Frequency $>3\text{G}$) during all tests. (Fig. 2)

| Tissue Type | Measurement Date | Measured Frequency (MHz) | Target Dielectric Constant, ϵ_r | Target Conductivity, σ (S/m) | Measured Dielectric Constant, ϵ_r | Measured Conductivity, σ (S/m) | % dev ϵ_r | % dev σ |
|-------------|------------------|--------------------------|--|-------------------------------------|--|---------------------------------------|--------------------|----------------|
| Head | Dec, 12. 2019 | 2402 | 39.285 | 1.757 | 37.858 | 1.798 | -3.63% | 2.31% |
| | | 2412 | 39.268 | 1.766 | 37.770 | 1.812 | -3.81% | 2.59% |
| | | 2417 | 39.259 | 1.771 | 37.706 | 1.820 | -3.95% | 2.79% |
| | | 2437 | 39.223 | 1.788 | 37.656 | 1.848 | -4.00% | 3.33% |
| | | 2441 | 39.216 | 1.792 | 37.636 | 1.853 | -4.03% | 3.40% |
| | | 2450 | 39.200 | 1.800 | 37.619 | 1.863 | -4.03% | 3.50% |
| | | 2457 | 39.191 | 1.808 | 37.611 | 1.871 | -4.03% | 3.51% |
| | | 2462 | 39.185 | 1.813 | 37.596 | 1.878 | -4.05% | 3.58% |
| | Dec, 13. 2019 | 2480 | 39.162 | 1.833 | 37.589 | 1.897 | -4.02% | 3.51% |
| | | 5190 | 35.997 | 4.645 | 36.614 | 4.509 | 1.71% | -2.92% |
| | | 5200 | 35.986 | 4.655 | 36.599 | 4.513 | 1.70% | -3.05% |
| | | 5210 | 35.974 | 4.665 | 36.479 | 4.517 | 1.40% | -3.18% |
| | Dec, 14. 2019 | 5230 | 35.951 | 4.686 | 36.332 | 4.519 | 1.06% | -3.56% |
| | | 5270 | 35.906 | 4.727 | 36.229 | 4.621 | 0.90% | -2.24% |
| | | 5290 | 35.883 | 4.747 | 36.221 | 4.631 | 0.94% | -2.45% |
| | | 5300 | 35.871 | 4.758 | 36.214 | 4.635 | 0.95% | -2.57% |
| | Dec, 15. 2019 | 5310 | 35.860 | 4.768 | 36.207 | 4.637 | 0.97% | -2.74% |
| | | 5530 | 35.609 | 4.993 | 35.534 | 4.901 | -0.21% | -1.85% |
| | | 5570 | 35.563 | 5.034 | 35.153 | 4.928 | -1.15% | -2.11% |
| | | 5600 | 35.529 | 5.065 | 35.105 | 5.003 | -1.19% | -1.22% |
| | Dec, 16. 2019 | 5610 | 35.517 | 5.075 | 35.096 | 5.033 | -1.19% | -0.83% |
| | | 5690 | 35.426 | 5.157 | 34.729 | 5.086 | -1.97% | -1.38% |
| | | 5775 | 35.329 | 5.244 | 34.621 | 5.159 | -2.00% | -1.63% |
| | | 5800 | 35.300 | 5.270 | 34.367 | 5.195 | -2.64% | -1.42% |

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the tissue simulating liquid:

| Frequency (MHz) | Mode | Ingredient | | | | | | Total amount |
|--------------------|------|------------|-------|------|------------------|-----------|-------|-----------------|
| | | DGMBE | Water | Salt | Preventol D-7 | Cellulose | Sugar | |
| 2450 | Head | 550ml | 450ml | — | — | — | — | 1.0L(Kg) |

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 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 ($\delta T / \delta t$) in the liquid.

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

whereby σ is the conductivity, ρ 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 (~ 2% for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
- 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., power 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 $\pm 10\%$ (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 $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and $\pm 7-9\%$ (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.

References

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3. K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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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.

- (1) 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).
- (2) Occupational/Controlled limits apply when persons are exposed as a 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.
- (3) 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 exercise control over their exposure. Warning labels placed on consumer

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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 Environment General Population | Controlled Environment Occupational |
|--|--|--|
| Spatial Peak SAR (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

SISO power

WLAN Tx1 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|--------------------------|-----------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx1 | WLAN 802.11b | Back side | 0 | 2 | 2417 | 20.00 | 19.98 | 100.46% | 0.669 | 0.672 | - |
| | | Top side | 0 | 2 | 2417 | 20.00 | 19.98 | 100.46% | 1.160 | 1.165 | 100 |
| | | Top side* | 0 | 2 | 2417 | 20.00 | 19.98 | 100.46% | 1.130 | 1.135 | - |
| | | Top side | 0 | 10 | 2457 | 20.00 | 19.96 | 100.93% | 1.040 | 1.050 | - |
| | WLAN 802.11ac(80M) 5.2G | Back side | 0 | 42 | 5210 | 15.00 | 14.97 | 100.69% | 0.322 | 0.324 | - |
| | | Top side | 0 | 42 | 5210 | 15.00 | 14.97 | 100.69% | 1.100 | 1.108 | 101 |
| | | Top side* | 0 | 42 | 5210 | 15.00 | 14.97 | 100.69% | 1.050 | 1.057 | - |
| | WLAN 802.11ac(80M) 5.3G | Back side | 0 | 58 | 5290 | 15.00 | 14.95 | 101.16% | 0.333 | 0.337 | - |
| | | Top side | 0 | 58 | 5290 | 15.00 | 14.95 | 101.16% | 1.030 | 1.042 | 102 |
| | | Top side* | 0 | 58 | 5290 | 15.00 | 14.95 | 101.16% | 0.999 | 1.011 | - |
| | WLAN 802.11ac(160M) 5.6G | Back side | 0 | 114 | 5570 | 13.50 | 13.48 | 100.46% | 0.179 | 0.180 | - |
| | | Top side | 0 | 114 | 5570 | 13.50 | 13.48 | 100.46% | 0.518 | 0.520 | 103 |
| | WLAN 802.11ac(80M) 5.8G | Back side | 0 | 155 | 5775 | 13.00 | 12.96 | 100.93% | 0.169 | 0.171 | - |
| | | Top side | 0 | 155 | 5775 | 13.00 | 12.96 | 100.93% | 0.612 | 0.618 | 105 |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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WLAN Tx2 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|--------------------------|-----------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx2 | WLAN 802.11b | Back side | 0 | 1 | 2412 | 18.00 | 17.99 | 100.23% | 0.728 | 0.730 | - |
| | | Top side | 0 | 1 | 2412 | 18.00 | 17.99 | 100.23% | 1.170 | 1.173 | 106 |
| | | Top side* | 0 | 1 | 2412 | 18.00 | 17.99 | 100.23% | 1.140 | 1.143 | - |
| | Bluetooth (GFSK) | Top side | 0 | 11 | 2462 | 18.00 | 17.98 | 100.46% | 1.130 | 1.135 | - |
| | | Back side | 0 | 78 | 2480 | 11.00 | 9.24 | 149.97% | 0.099 | 0.149 | - |
| | WLAN 802.11ac(80M) 5.2G | Top side | 0 | 78 | 2480 | 11.00 | 9.24 | 149.97% | 0.177 | 0.265 | 107 |
| | | Back side | 0 | 42 | 5210 | 14.00 | 13.98 | 100.46% | 0.231 | 0.232 | - |
| | | Top side | 0 | 42 | 5210 | 14.00 | 13.98 | 100.46% | 1.190 | 1.195 | 108 |
| | WLAN 802.11ac(80M) 5.3G | Top side* | 0 | 42 | 5210 | 14.00 | 13.98 | 100.46% | 1.150 | 1.155 | - |
| | | Back side | 0 | 58 | 5290 | 13.50 | 13.44 | 101.39% | 0.203 | 0.206 | - |
| | | Top side | 0 | 58 | 5290 | 13.50 | 13.44 | 101.39% | 1.010 | 1.024 | 109 |
| | WLAN 802.11ac(160M) 5.6G | Top side* | 0 | 58 | 5290 | 13.50 | 13.44 | 101.39% | 0.997 | 1.011 | - |
| | | Back side | 0 | 114 | 5570 | 13.50 | 13.48 | 100.46% | 0.274 | 0.275 | - |
| | | Top side | 0 | 114 | 5570 | 13.50 | 13.48 | 100.46% | 0.910 | 0.914 | 110 |
| | WLAN 802.11ac(80M) 5.8G | Top side* | 0 | 114 | 5570 | 13.50 | 13.48 | 100.46% | 0.897 | 0.901 | - |
| | | Back side | 0 | 155 | 5775 | 15.50 | 15.49 | 100.23% | 0.413 | 0.414 | - |
| | | Top side | 0 | 155 | 5775 | 15.50 | 15.49 | 100.23% | 1.180 | 1.183 | 111 |
| | | | Top side* | 0 | 155 | 5775 | 15.50 | 15.49 | 100.23% | 1.160 | 1.163 |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Notebook mode

SISO power

WLAN Tx1 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|-------------------------|-------------------------|--------------|---------------|------|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx1 | WLAN 802.11b | Bottom side | 0 | 2 | 2417 | 20.00 | 19.98 | 100.46% | 0.924 | 0.928 | 112 |
| | | Bottom side* | 0 | 2 | 2417 | 20.00 | 19.98 | 100.46% | 0.911 | 0.915 | - |
| | | Bottom side | 0 | 6 | 2437 | 20.00 | 19.95 | 101.16% | 0.849 | 0.859 | - |
| | WLAN 802.11n(40M) 5.2G | Bottom side | 0 | 38 | 5190 | 18.50 | 18.48 | 100.46% | 0.819 | 0.823 | - |
| | | Bottom side | 0 | 46 | 5230 | 19.00 | 18.98 | 100.46% | 0.916 | 0.920 | 114 |
| | | Bottom side* | 0 | 46 | 5230 | 19.00 | 18.98 | 100.46% | 0.903 | 0.907 | - |
| | WLAN 802.11n(40M) 5.3G | Bottom side | 0 | 54 | 5270 | 19.00 | 18.98 | 100.46% | 1.050 | 1.055 | 115 |
| | | Bottom side* | 0 | 54 | 5270 | 19.00 | 18.98 | 100.46% | 1.010 | 1.015 | - |
| | | Bottom side | 0 | 62 | 5310 | 17.50 | 17.44 | 101.39% | 0.604 | 0.612 | - |
| | WLAN 802.11ac(80M) 5.6G | Bottom side | 0 | 106 | 5530 | 17.00 | 16.99 | 100.23% | 0.475 | 0.476 | 116 |
| WLAN 802.11ac(80M) 5.8G | Bottom side | 0 | 155 | 5775 | 16.50 | 16.49 | 100.23% | 0.451 | 0.452 | 117 | |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

WLAN Tx2 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|-------------------------|--------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx2 | WLAN 802.11b | Bottom side | 0 | 1 | 2412 | 19.00 | 18.97 | 100.69% | 0.800 | 0.806 | - |
| | | Bottom side | 0 | 6 | 2437 | 19.00 | 18.99 | 100.23% | 0.852 | 0.854 | 118 |
| | | Bottom side* | 0 | 6 | 2437 | 19.00 | 18.99 | 100.23% | 0.841 | 0.843 | - |
| | Bluetooth (GFSK) | Bottom side | 0 | 78 | 2480 | 11.00 | 9.24 | 149.97% | 0.082 | 0.123 | 119 |
| | WLAN 802.11ac(80M) 5.2G | Bottom side | 0 | 42 | 5210 | 18.50 | 18.49 | 100.23% | 0.934 | 0.936 | 120 |
| | | Bottom side* | 0 | 42 | 5210 | 18.50 | 18.49 | 100.23% | 0.928 | 0.930 | - |
| | WLAN 802.11ac(80M) 5.3G | Bottom side | 0 | 58 | 5290 | 18.00 | 17.97 | 100.69% | 0.772 | 0.777 | 121 |
| | WLAN 802.11ac(80M) 5.6G | Bottom side | 0 | 106 | 5530 | 17.00 | 16.98 | 100.46% | 0.731 | 0.734 | 122 |
| | WLAN 802.11ac(80M) 5.8G | Bottom side | 0 | 155 | 5775 | 17.00 | 16.97 | 100.69% | 0.806 | 0.812 | 123 |
| | | Bottom side* | 0 | 155 | 5775 | 17.00 | 16.97 | 100.69% | 0.790 | 0.795 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Tablet mode

MIMO power

WLAN Tx1 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|--------------------------|-----------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx1 | WLAN 802.11n(20M) | Back side | 0 | 6 | 2437 | 14.50 | 14.49 | 100.23% | 0.228 | 0.229 | - |
| | | Top side | 0 | 6 | 2437 | 14.50 | 14.49 | 100.23% | 0.368 | 0.369 | 124 |
| | WLAN 802.11ac(80M) 5.2G | Back side | 0 | 42 | 5210 | 11.00 | 10.96 | 100.93% | 0.109 | 0.110 | - |
| | | Top side | 0 | 42 | 5210 | 11.00 | 10.96 | 100.93% | 0.319 | 0.322 | 125 |
| | WLAN 802.11ac(80M) 5.3G | Back side | 0 | 58 | 5290 | 10.50 | 10.47 | 100.69% | 0.125 | 0.126 | - |
| | | Top side | 0 | 58 | 5290 | 10.50 | 10.47 | 100.69% | 0.375 | 0.378 | 126 |
| | WLAN 802.11ac(160M) 5.6G | Back side | 0 | 114 | 5570 | 10.50 | 10.48 | 100.46% | 0.092 | 0.092 | - |
| | | Top side | 0 | 114 | 5570 | 10.50 | 10.48 | 100.46% | 0.252 | 0.253 | 127 |
| | WLAN 802.11ac(80M) 5.8G | Back side | 0 | 155 | 5775 | 10.00 | 9.98 | 100.46% | 0.077 | 0.078 | - |
| | | Top side | 0 | 155 | 5775 | 10.00 | 9.98 | 100.46% | 0.272 | 0.273 | 128 |

WLAN Tx2 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|--------------------------|-----------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx2 | WLAN 802.11n(20M) | Back side | 0 | 10 | 2457 | 14.50 | 14.49 | 100.23% | 0.329 | 0.330 | - |
| | | Top side | 0 | 10 | 2457 | 14.50 | 14.49 | 100.23% | 0.570 | 0.571 | 129 |
| | WLAN 802.11ac(80M) 5.2G | Back side | 0 | 42 | 5210 | 11.00 | 10.97 | 100.69% | 0.125 | 0.126 | - |
| | | Top side | 0 | 42 | 5210 | 11.00 | 10.97 | 100.69% | 0.499 | 0.502 | 130 |
| | WLAN 802.11ac(80M) 5.3G | Back side | 0 | 58 | 5290 | 10.50 | 10.48 | 100.46% | 0.117 | 0.118 | - |
| | | Top side | 0 | 58 | 5290 | 10.50 | 10.48 | 100.46% | 0.443 | 0.445 | 131 |
| | WLAN 802.11ac(160M) 5.6G | Back side | 0 | 114 | 5570 | 10.50 | 10.44 | 101.39% | 0.147 | 0.149 | - |
| | | Top side | 0 | 114 | 5570 | 10.50 | 10.44 | 101.39% | 0.426 | 0.432 | 132 |
| | WLAN 802.11ac(80M) 5.8G | Back side | 0 | 155 | 5775 | 10.00 | 9.93 | 101.62% | 0.122 | 0.124 | - |
| | | Top side | 0 | 155 | 5775 | 10.00 | 9.93 | 101.62% | 0.483 | 0.491 | 133 |

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Notebook mode

MIMO power

WLAN Tx1 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|-------------------------|-------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx1 | WLAN 802.11n(20M) | Bottom side | 0 | 6 | 2437 | 14.50 | 14.49 | 100.23% | 0.249 | 0.250 | 134 |
| | WLAN 802.11n(40M) 5.2G | Bottom side | 0 | 46 | 5230 | 15.50 | 15.46 | 100.93% | 0.378 | 0.381 | 135 |
| | WLAN 802.11n(40M) 5.3G | Bottom side | 0 | 54 | 5270 | 15.00 | 14.98 | 100.46% | 0.357 | 0.359 | 136 |
| | WLAN 802.11ac(80M) 5.6G | Bottom side | 0 | 106 | 5530 | 14.00 | 13.99 | 100.23% | 0.225 | 0.226 | 137 |
| | WLAN 802.11ac(80M) 5.8G | Bottom side | 0 | 155 | 5775 | 13.50 | 13.48 | 100.46% | 0.191 | 0.192 | 138 |

WLAN Tx2 Antenna

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---------|-------------------------|-------------|---------------|-----|-------------|--|---------------------------|---------|-----------------------------|----------|-----------|
| | | | | | | | | | Measured | Reported | |
| Tx2 | WLAN 802.11n(20M) | Bottom side | 0 | 10 | 2457 | 14.50 | 14.49 | 100.23% | 0.313 | 0.314 | 139 |
| | WLAN 802.11n(40M) 5.2G | Bottom side | 0 | 46 | 5230 | 15.50 | 15.44 | 101.39% | 0.475 | 0.482 | 14 |
| | WLAN 802.11n(40M) 5.3G | Bottom side | 0 | 54 | 5270 | 15.00 | 14.99 | 100.23% | 0.395 | 0.396 | 141 |
| | WLAN 802.11ac(80M) 5.6G | Bottom side | 0 | 122 | 5610 | 14.00 | 13.98 | 100.46% | 0.465 | 0.467 | 142 |
| | WLAN 802.11ac(80M) 5.8G | Bottom side | 0 | 155 | 5775 | 13.50 | 13.45 | 101.16% | 0.393 | 0.398 | 143 |

Note:

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

$$\text{Reported SAR} = \text{measured SAR} * (\text{scaling})$$

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 Tx1 | Yes |
| BT + 5GHz WLAN Tx1 | Yes |

Note:

1. Bluetooth and WLAN Tx2 share the same antenna path, and BT can transmit with WLAN Tx1 simultaneously.
2. For 2.4/5GHz WLAN Tx2 and Tx1 antennas, the maximum output power of each antenna during simultaneous transmission is less than that used in standalone transmission, and we used the sum of standalone 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:

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

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

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 $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, 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 R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

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

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Tablet mode
2.4 GHz WLAN MIMO Tx1 + 2.4 GHz WLAN MIMO Tx2

| No. | Conditions | Position | Max. WLAN Tx1 | Max. WLAN Tx2 | SAR Sum | SPLSR |
|-----|-----------------------------|-----------|---------------|---------------|---------|--------------------------------|
| 1 | 2.4 GHz WLAN Tx1 + WLAN Tx2 | Back side | 0.229 | 0.330 | 0.559 | Σ SAR<1.6, Not required |
| | | Top side | 0.369 | 0.571 | 0.940 | Σ SAR<1.6, Not required |

5 GHz WLAN MIMO Tx1 + 5 GHz WLAN MIMO Tx2

| No. | Conditions | Position | Max. WLAN Tx1 | Max. WLAN Tx2 | SAR Sum | SPLSR |
|-----|---------------------------|-----------|---------------|---------------|---------|--------------------------------|
| 2 | 5 GHz WLAN Tx1 + WLAN Tx2 | Back side | 0.126 | 0.149 | 0.275 | Σ SAR<1.6, Not required |
| | | Top side | 0.378 | 0.502 | 0.880 | Σ SAR<1.6, Not required |

BT+ 2.4GHz WLAN SISO Tx1

| No. | Conditions | Position | Max. WLAN Tx1 | BT | SAR Sum | SPLSR |
|-----|-----------------------|-----------|---------------|-------|---------|--------------------------------|
| 3 | 2.4 GHz WLAN Tx1 + BT | Back side | 0.672 | 0.149 | 0.821 | Σ SAR<1.6, Not required |
| | | Top side | 1.165 | 0.265 | 1.430 | Σ SAR<1.6, Not required |

BT+ 5GHz WLAN SISO Tx1

| No. | Conditions | Position | Max. WLAN Tx1 | BT | SAR Sum | SPLSR |
|-----|---------------------|-----------|---------------|-------|---------|--------------------------------|
| 4 | 5 GHz WLAN Tx1 + BT | Back side | 0.337 | 0.149 | 0.486 | Σ SAR<1.6, Not required |
| | | Top side | 1.108 | 0.265 | 1.373 | Σ SAR<1.6, Not required |

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Notebook mode
2.4 GHz WLAN MIMO Tx1 + 2.4 GHz WLAN MIMO Tx2

| No. | Conditions | Position | Max. WLAN Tx1 | Max. WLAN Tx2 | SAR Sum | SPLSR |
|-----|-----------------------------|-------------|---------------|---------------|---------|--------------------------------|
| 1 | 2.4 GHz WLAN Tx1 + WLAN Tx2 | Bottom side | 0.250 | 0.314 | 0.564 | Σ SAR<1.6, Not required |

5 GHz WLAN MIMO Tx1 + 5 GHz WLAN MIMO Tx2

| No. | Conditions | Position | Max. WLAN Tx1 | Max. WLAN Tx2 | SAR Sum | SPLSR |
|-----|---------------------------|-------------|---------------|---------------|---------|--------------------------------|
| 2 | 5 GHz WLAN Tx1 + WLAN Tx2 | Bottom side | 0.381 | 0.482 | 0.863 | Σ SAR<1.6, Not required |

BT+ 2.4GHz WLAN SISO Tx1

| No. | Conditions | Position | Max. WLAN Tx1 | BT | SAR Sum | SPLSR |
|-----|-----------------------|-------------|---------------|-------|---------|--------------------------------|
| 3 | 2.4 GHz WLAN Tx1 + BT | Bottom side | 0.928 | 0.123 | 1.051 | Σ SAR<1.6, Not required |

BT+ 5GHz WLAN SISO Tx1

| No. | Conditions | Position | Max. WLAN Tx1 | BT | SAR Sum | SPLSR |
|-----|---------------------|-------------|---------------|-------|---------|--------------------------------|
| 4 | 5 GHz WLAN Tx1 + BT | Bottom side | 1.055 | 0.123 | 1.178 | Σ SAR<1.6, Not required |

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4. Instruments List

| Manufacturer | Device | Type | Serial number | Date of last calibration | Date of next calibration |
|--------------|------------------------------|----------------|---------------|--------------------------|--------------------------|
| SPEAG | Dosimetric E-Field Probe | EX3DV4 | 3770 | Apr.29,2019 | Apr.28,2020 |
| SPEAG | System Validation Dipole | D2450V2 | 727 | Apr.24,2019 | Apr.23,2020 |
| | | D5GHzV2 | 1023 | Jan.30,2019 | Jan.29,2020 |
| SPEAG | Data acquisition Electronics | DAE4 | 856 | Apr.24,2019 | Apr.23,2020 |
| SPEAG | Software | DASY 52 52.8.8 | N/A | Calibration not required | Calibration not required |
| SPEAG | Phantom | ELI | N/A | Calibration not required | Calibration not required |
| Agilent | Network Analyzer | E5071C | MY46107530 | Feb.23,2019 | Feb.22,2020 |
| Agilent | Dielectric Probe Kit | 85070E | MY44300677 | Calibration not required | Calibration not required |
| Agilent | Dual-directional coupler | 772D | MY46151242 | Jul.30,2019 | Jul.29,2020 |
| | | 778D | MY48220468 | Jul.30,2019 | Jul.29,2020 |
| Agilent | Signal Generator | N5181A | MY50141235 | Apr.22,2019 | Apr.21,2020 |
| Agilent | Power Meter | E4417A | MY51410006 | Feb.19,2019 | Feb.18,2020 |
| Agilent | Power Sensor | E9301H | MY51470001 | Feb.19,2019 | Feb.18,2020 |
| | | | MY51470002 | Feb.19,2019 | Feb.18,2020 |
| TECPEL | Digital thermometer | DTM-303A | TP130074 | Mar.26,2019 | Mar.25,2020 |

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5. Measurements

Date: 2019/12/12

WLAN 802.11b_Body_Top side_CH 2_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2417 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2417$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 37.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.86 W/kg

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

Reference Value = 9.462 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.508 W/kg

Maximum value of SAR (measured) = 1.87 W/kg

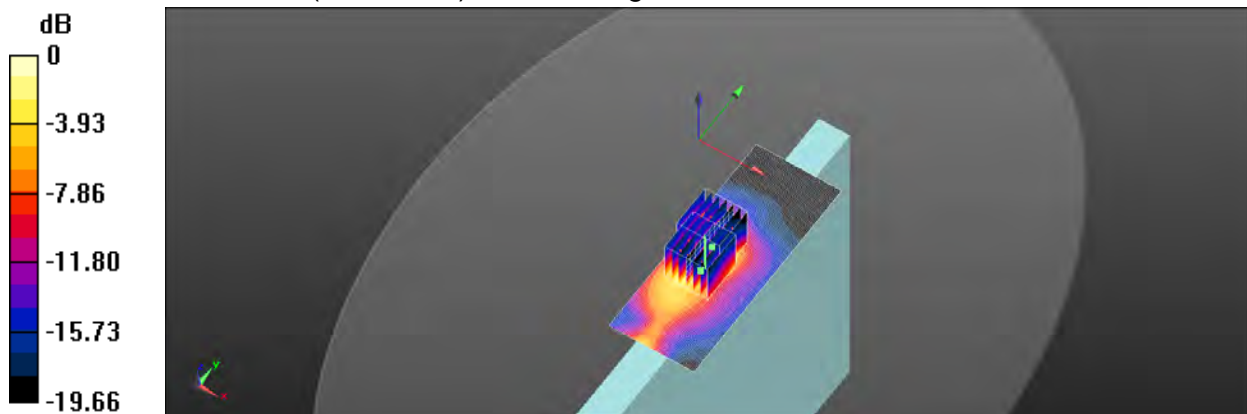
Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.462 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.559 W/kg

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



0 dB = 1.91 W/kg = 2.81 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.24 W/kg

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

Reference Value = 4.331 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 5.75 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.376 W/kg

Maximum value of SAR (measured) = 2.33 W/kg

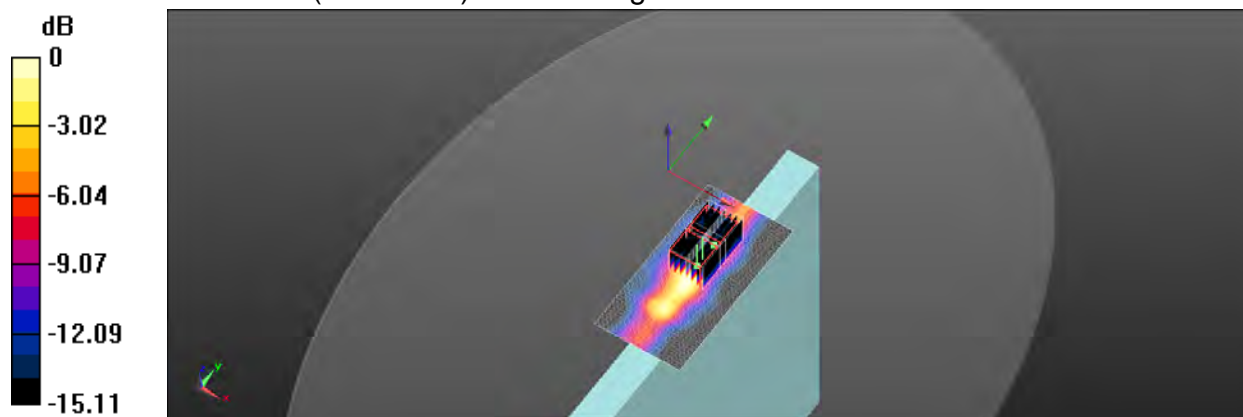
Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.331 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.31 W/kg

SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.318 W/kg

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.09 W/kg

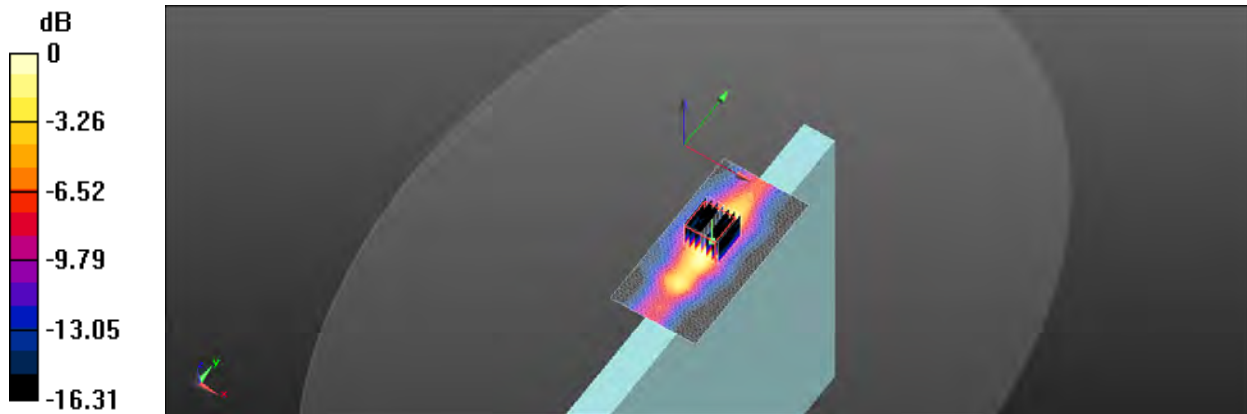
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.788 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.358 W/kg

Maximum value of SAR (measured) = 2.17 W/kg



0 dB = 2.17 W/kg = 3.36 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5570$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.153$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.977 W/kg

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

Reference Value = 3.539 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.209 W/kg

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

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.539 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.960 W/kg

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

Reference Value = 3.539 V/m; Power Drift = 0.17 dB

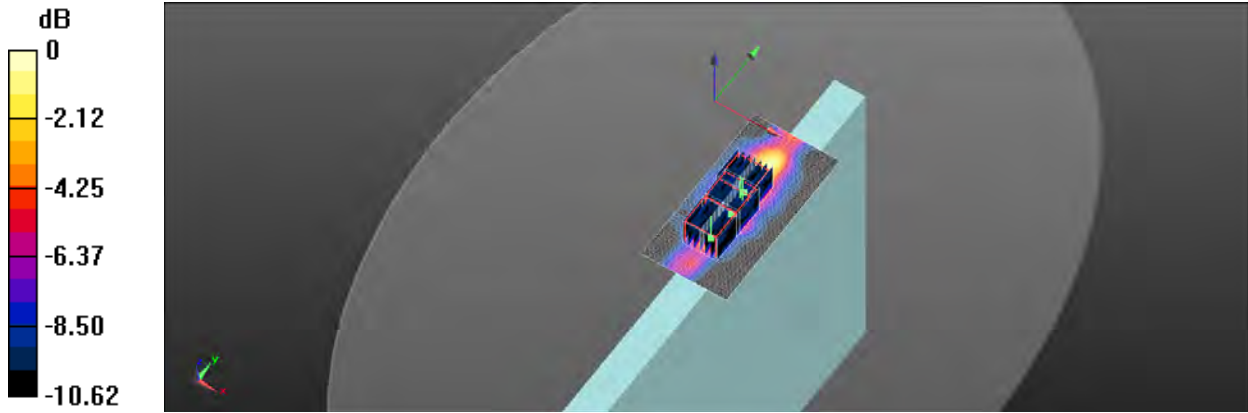
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.687 W/kg

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$0 \text{ dB} = 0.687 \text{ W/kg} = -1.63 \text{ dBW/kg}$

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775$ MHz; $\sigma = 5.159$ S/m; $\epsilon_r = 34.621$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

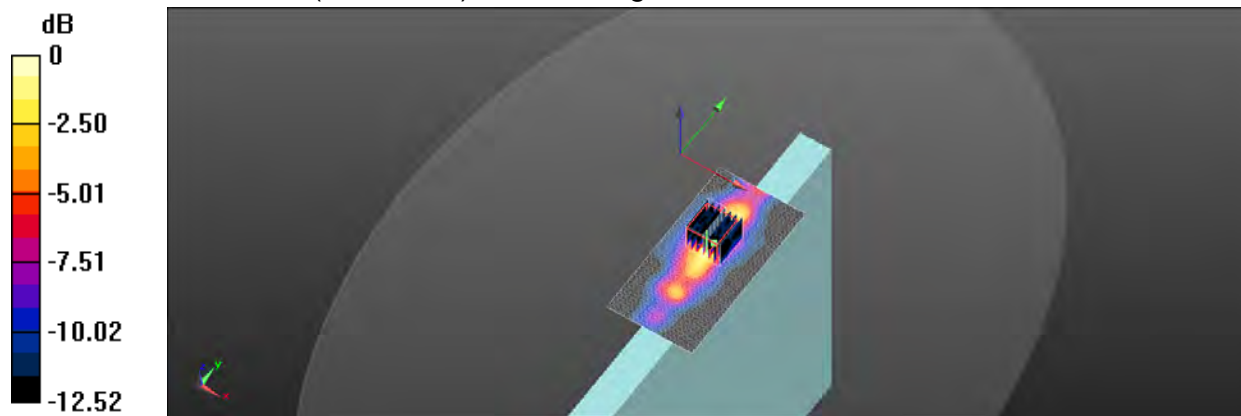
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.801 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.242 W/kg

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



0 dB = 1.19 W/kg = 0.76 dBW/kg

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Date: 2019/12/12

WLAN 802.11b_Body_Top side_CH 1_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.812$ S/m; $\epsilon_r = 37.77$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

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

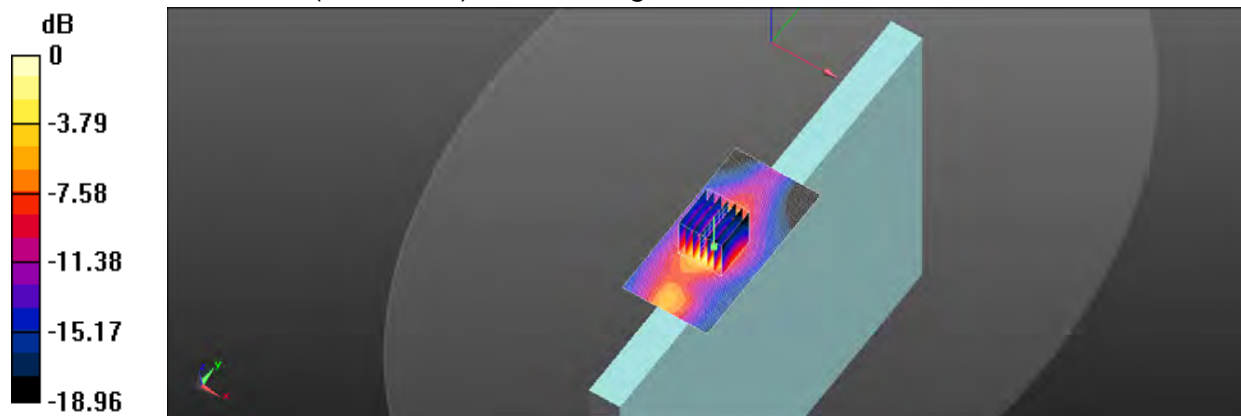
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.296 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.524 W/kg

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



0 dB = 1.89 W/kg = 2.76 dBW/kg

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Date: 2019/12/12

Bluetooth(GFSK)_Body_Top side_CH 78_Tx2_0mm

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2480$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 37.589$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.285 W/kg

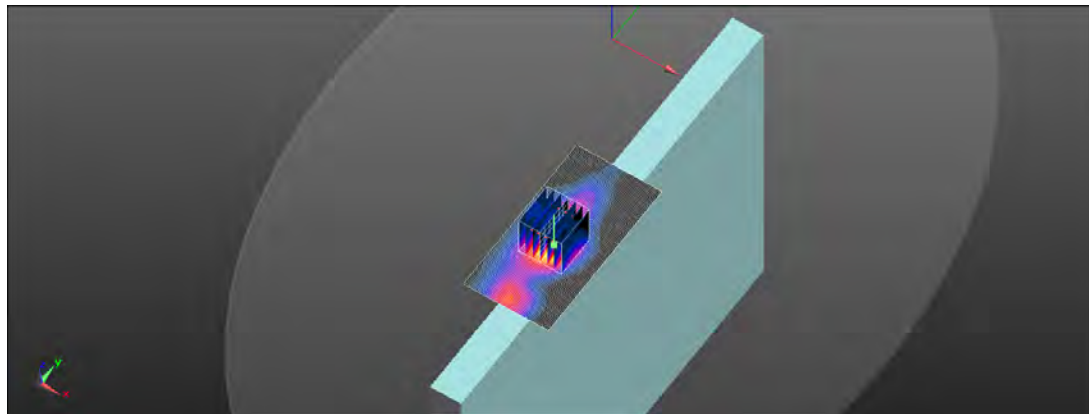
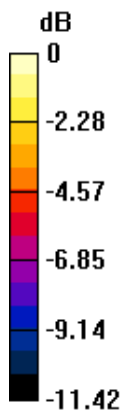
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.349 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.283 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5210$ MHz; $\sigma = 4.517$ S/m; $\epsilon_r = 36.479$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.69 W/kg

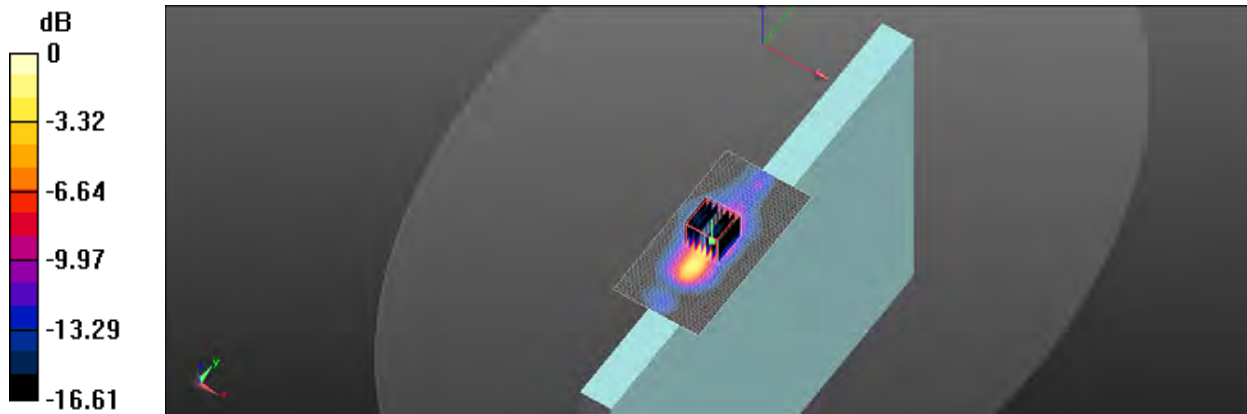
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.241 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 5.89 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.368 W/kg

Maximum value of SAR (measured) = 2.59 W/kg



0 dB = 2.59 W/kg = 4.13 dBW/kg

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.24 W/kg

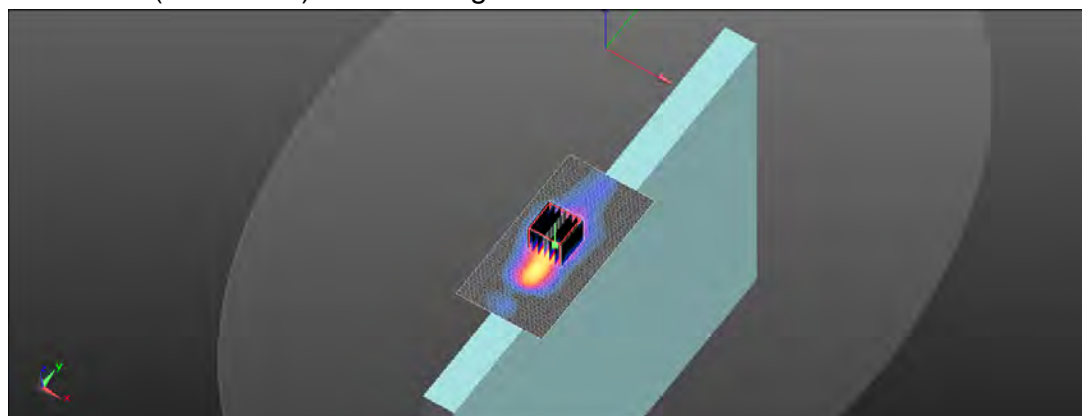
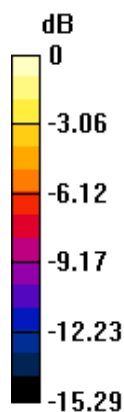
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.014 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 4.66 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 2.11 W/kg



0 dB = 2.11 W/kg = 3.24 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5570$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.153$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.98 W/kg

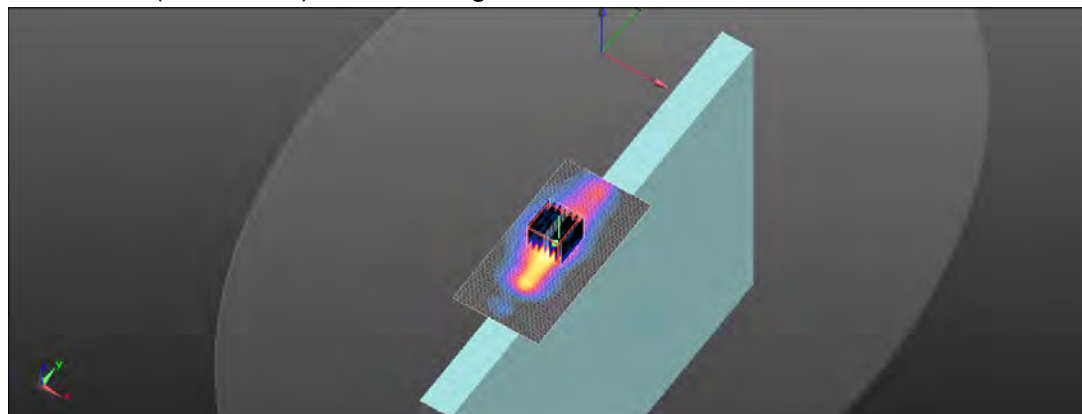
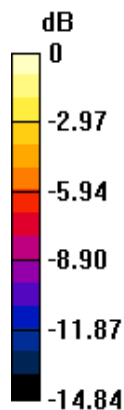
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.525 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.44 W/kg

SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.336 W/kg

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.26 W/kg

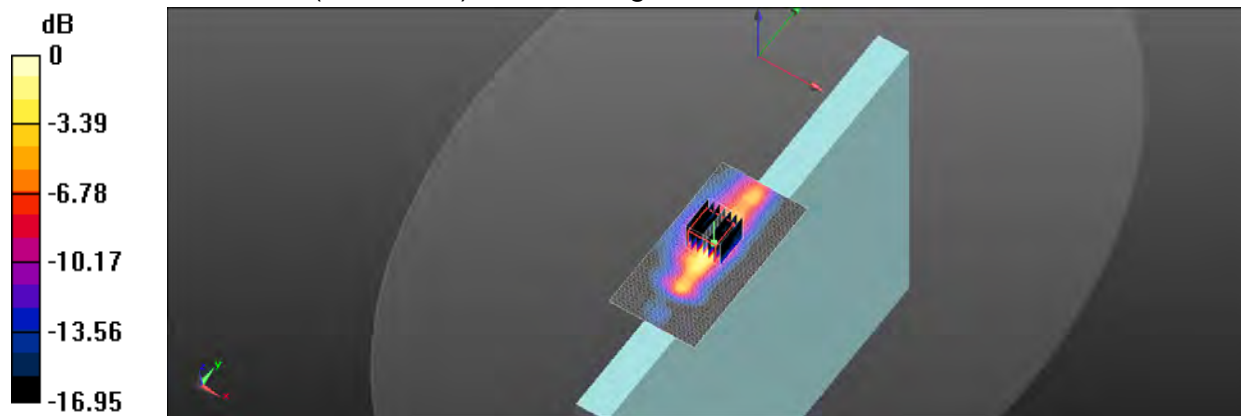
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.965 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 6.29 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.378 W/kg

Maximum value of SAR (measured) = 2.35 W/kg



0 dB = 2.35 W/kg = 3.71 dBW/kg

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Date: 2019/12/12

WLAN 802.11b_Body_Bottom side_CH 2_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2417 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2417 \text{ MHz}$; $\sigma = 1.82 \text{ S/m}$; $\epsilon_r = 37.706$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

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

Reference Value = 1.527 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.492 W/kg

Maximum value of SAR (measured) = 1.29 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.527 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.439 W/kg

Maximum value of SAR (measured) = 1.26 W/kg

Zoom Scan (7x7x7)/Cube 2: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.527 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.47 W/kg

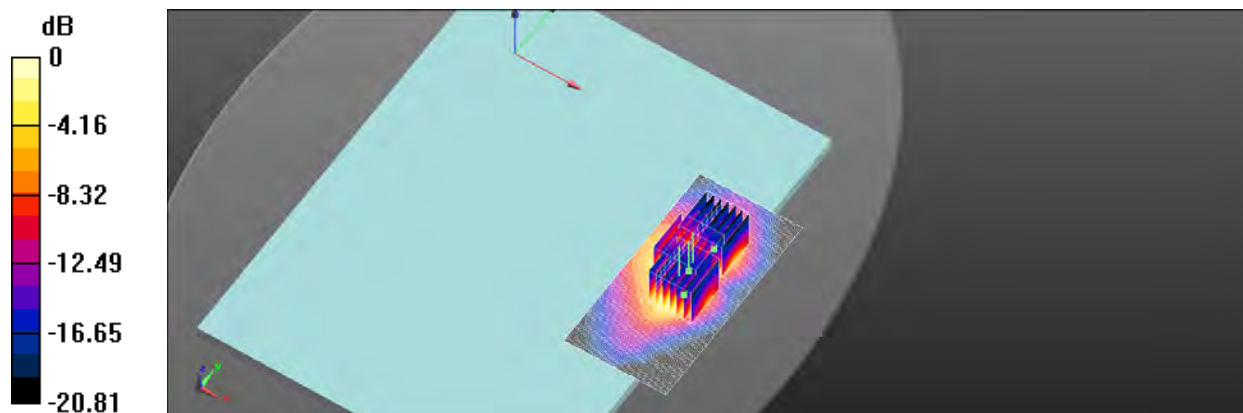
SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 1.16 W/kg

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0 dB = 1.16 W/kg = 0.64 dBW/kg

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Date: 2019/12/13

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.519 \text{ S/m}$; $\epsilon_r = 36.332$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.76 W/kg

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

Reference Value = 1.957 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 1.86 W/kg

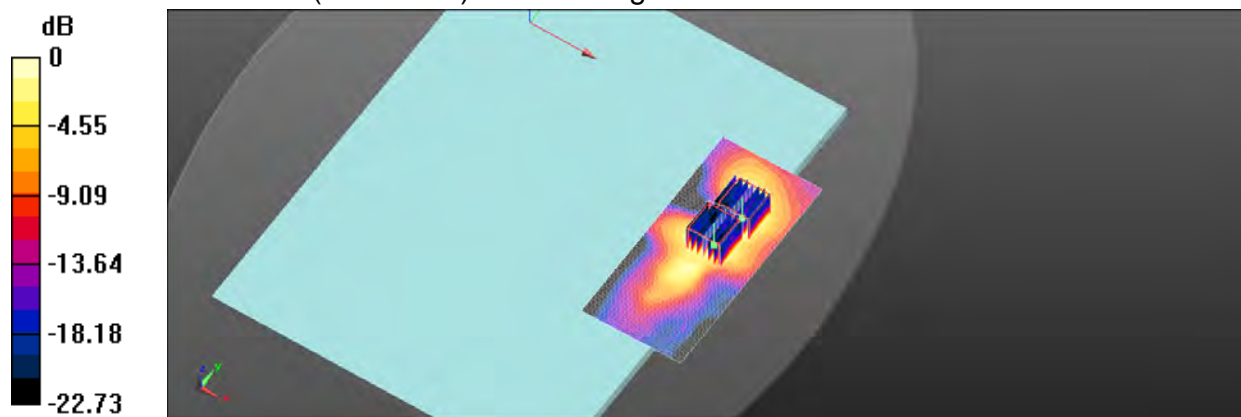
Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.957 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.241 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

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Date: 2019/12/14

WLAN 802.11n(40M) 5.3G_Body_Bottom side_CH 54_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5270$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 36.229$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.29 W/kg

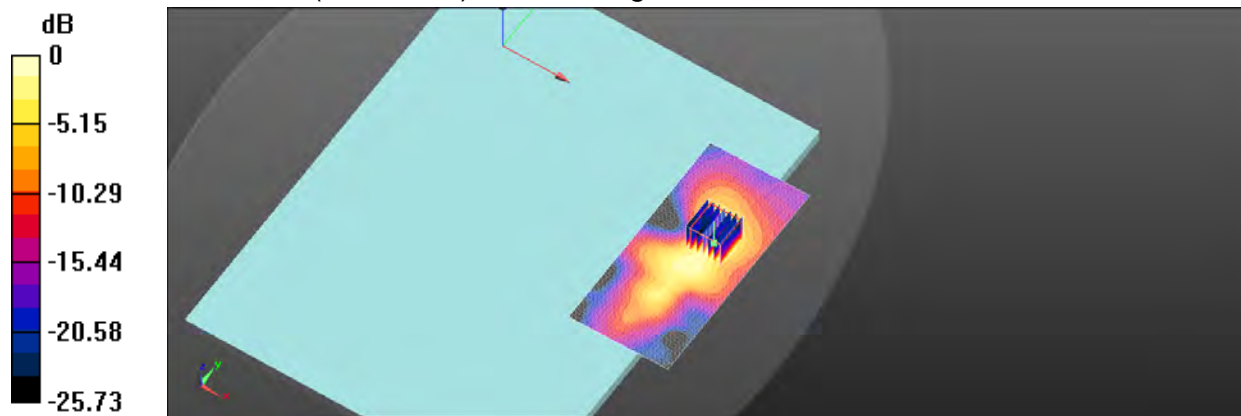
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.541 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 4.84 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.352 W/kg

Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg = 3.28 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 106_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5530$ MHz; $\sigma = 4.901$ S/m; $\epsilon_r = 35.534$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.926 W/kg

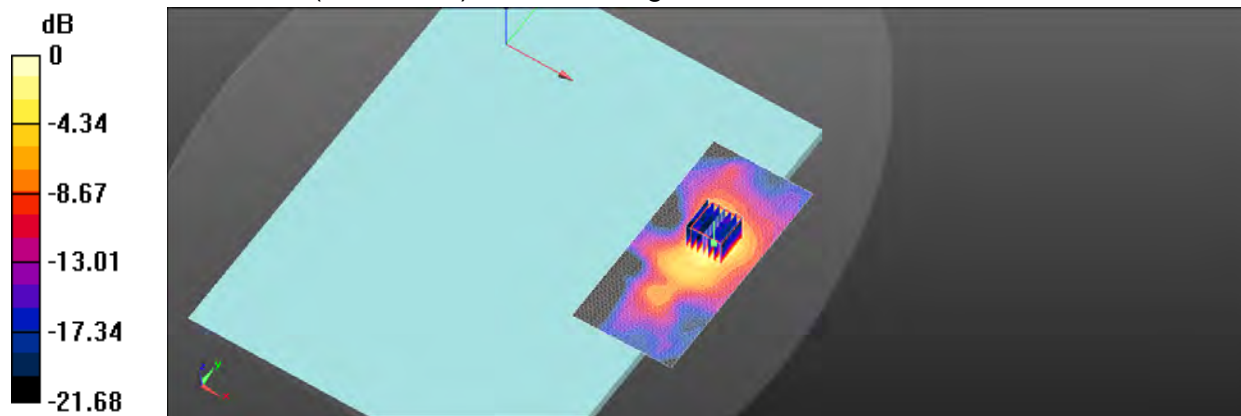
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.937 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.951 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.838 W/kg

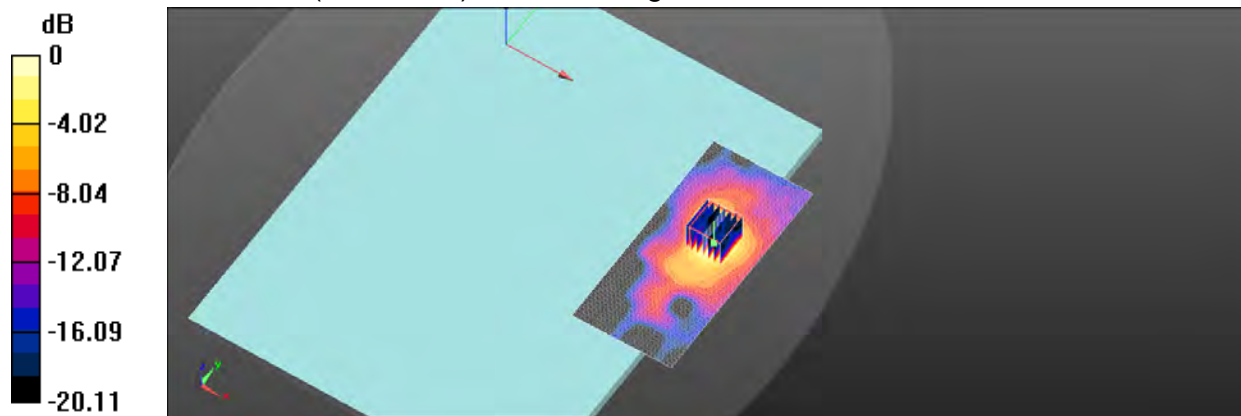
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.063 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.873 W/kg



0 dB = 0.873 W/kg = -0.59 dBW/kg

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Date: 2019/12/12

WLAN 802.11b_Body_Bottom side_CH 6_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.25 W/kg

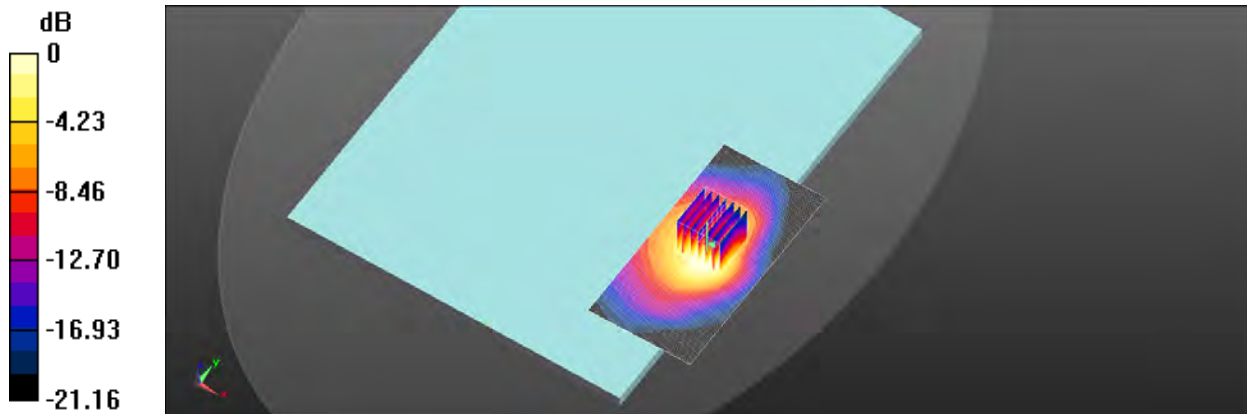
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.272 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.456 W/kg

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



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2019/12/12

Bluetooth(GFSK)_Body_Bottom side_CH 78_Tx2_0mm

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2480$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 37.589$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.126 W/kg

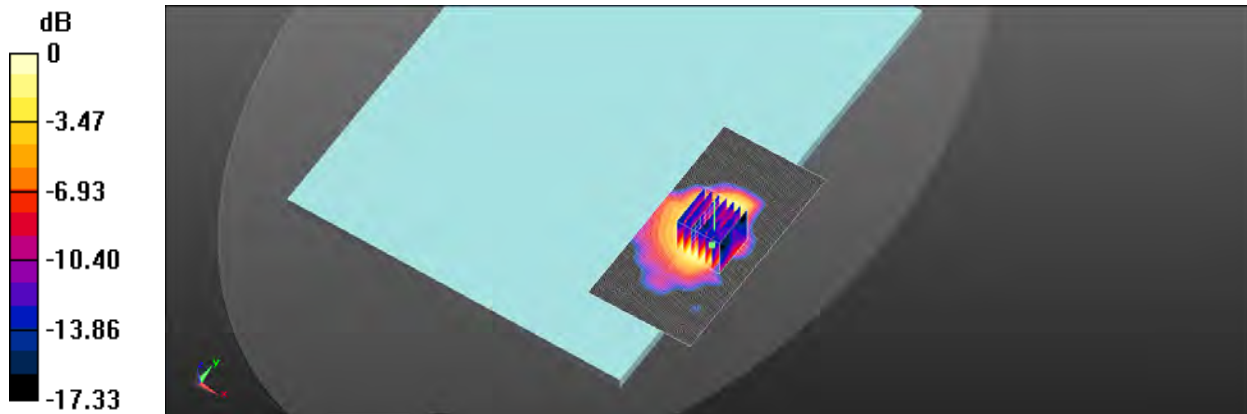
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.122 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.043 W/kg

Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg = -9.36 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Bottom side_CH 42_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.517$ S/m; $\epsilon_r = 36.479$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.93 W/kg

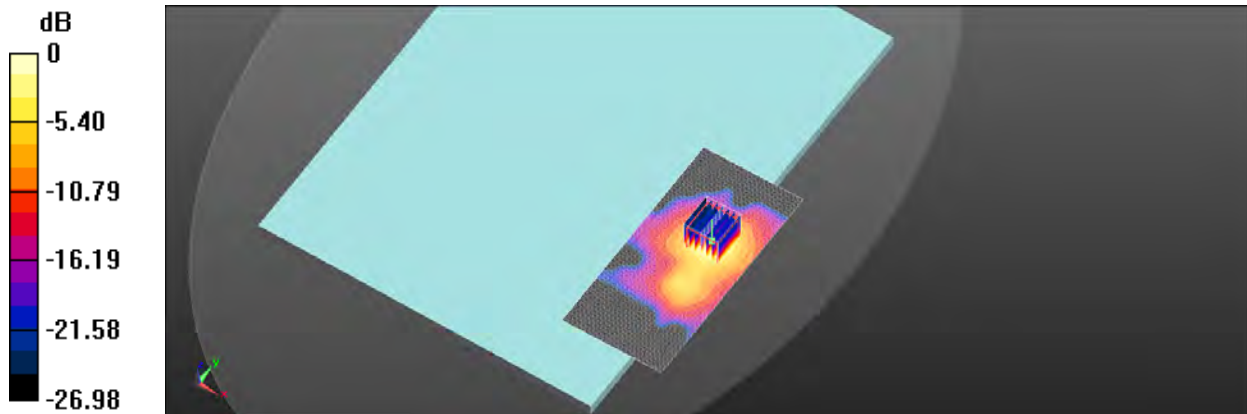
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.890 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.314 W/kg

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Bottom side_CH 58_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.63 W/kg

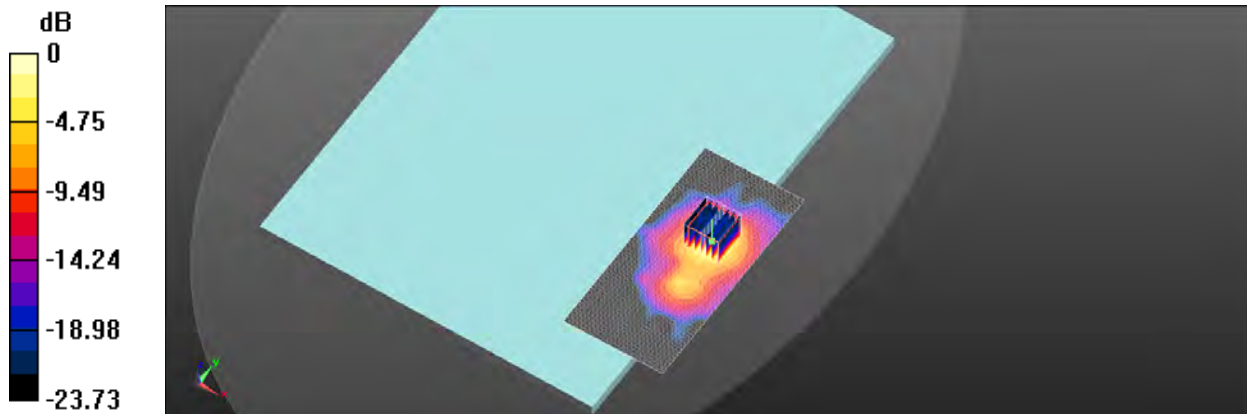
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.250 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.56 W/kg = 1.93 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 106_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5530$ MHz; $\sigma = 4.901$ S/m; $\epsilon_r = 35.534$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.52 W/kg

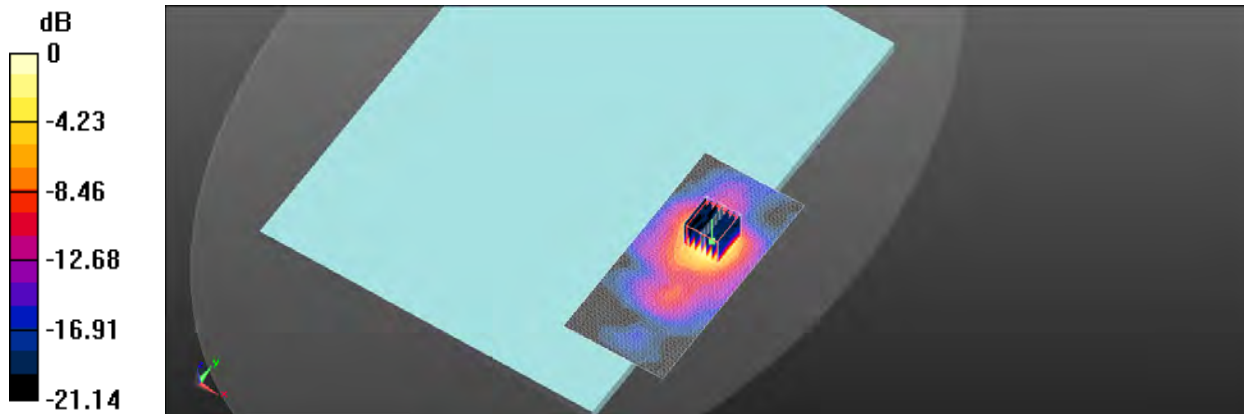
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.315 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.731 W/kg; SAR(10 g) = 0.247 W/kg

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



0 dB = 1.47 W/kg = 1.67 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.52 W/kg

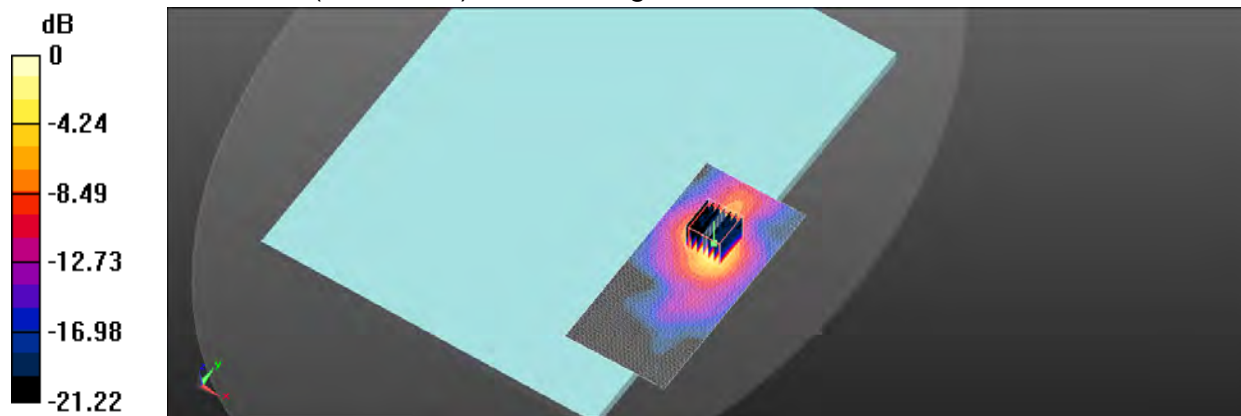
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.586 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.93 W/kg

SAR(1 g) = 0.806 W/kg ; SAR(10 g) = 0.263 W/kg

Maximum value of SAR (measured) = 1.68 W/kg



0 dB = $1.68 \text{ W/kg} = 2.25 \text{ dBW/kg}$

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Top side_CH 6_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.596 W/kg

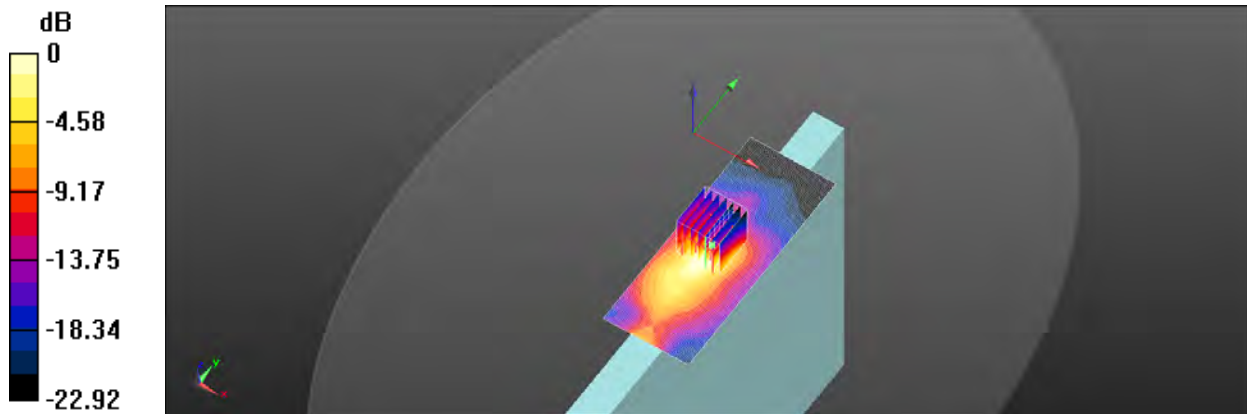
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.114 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.583 W/kg



0 dB = 0.583 W/kg = -2.34 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.643 W/kg

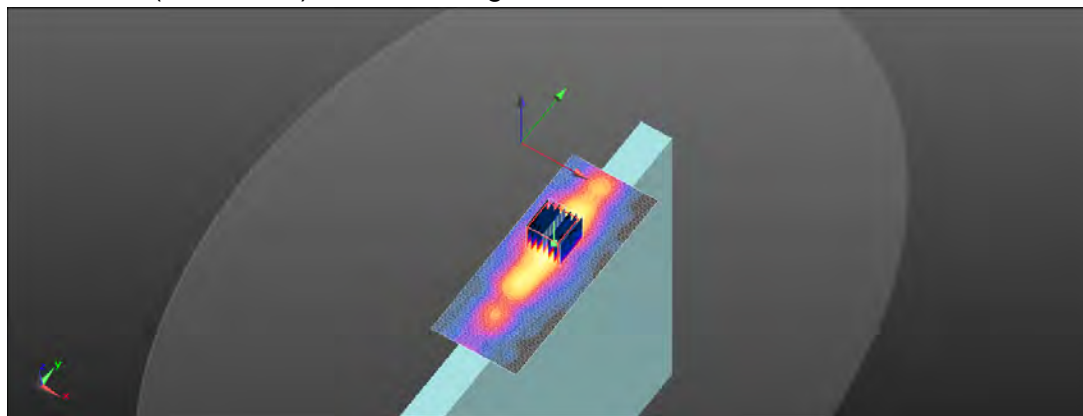
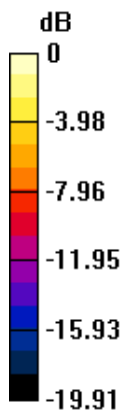
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.491 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.704 W/kg



0 dB = 0.704 W/kg = -1.52 dBW/kg

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.741 W/kg

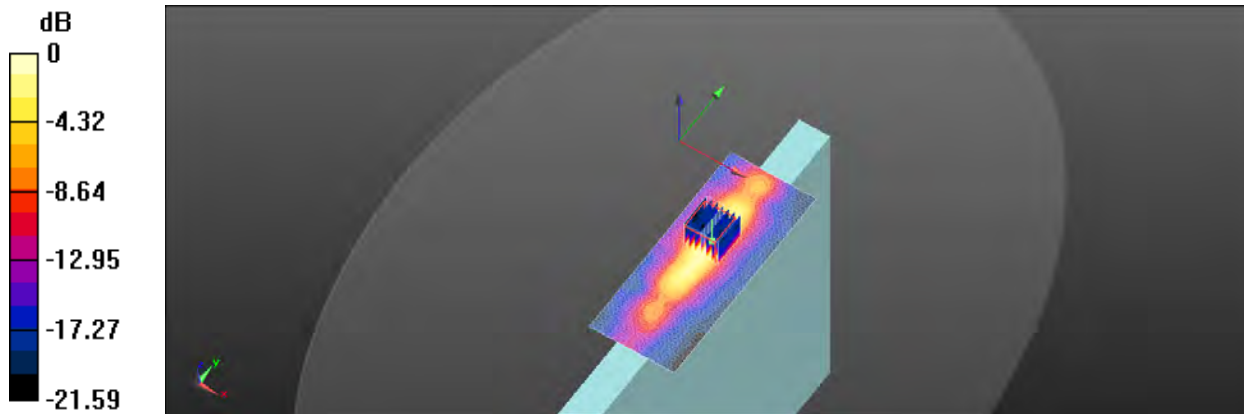
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.126 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.799 W/kg



0 dB = 0.799 W/kg = -0.97 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5570$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.153$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.527 W/kg

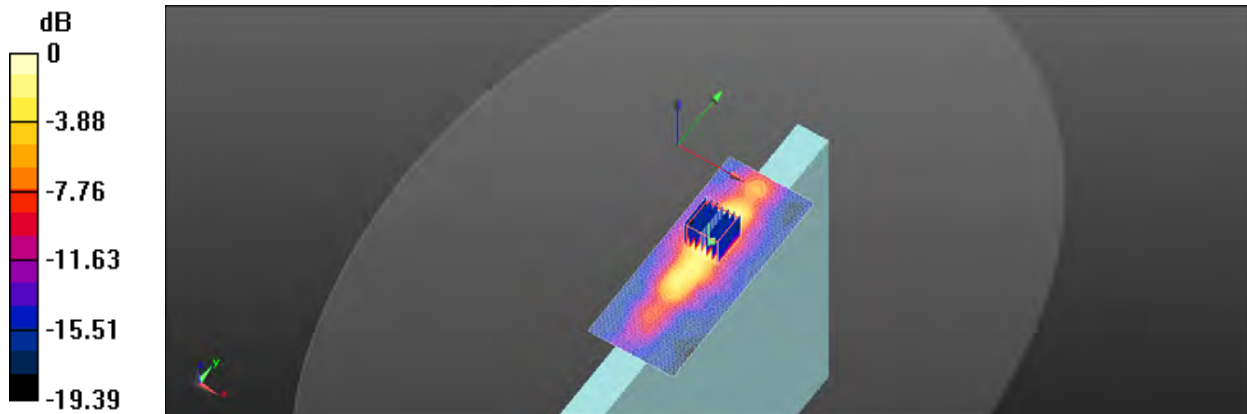
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.063 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.088 W/kg

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



0 dB = 0.534 W/kg = -2.72 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775$ MHz; $\sigma = 5.159$ S/m; $\epsilon_r = 34.621$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.614 W/kg

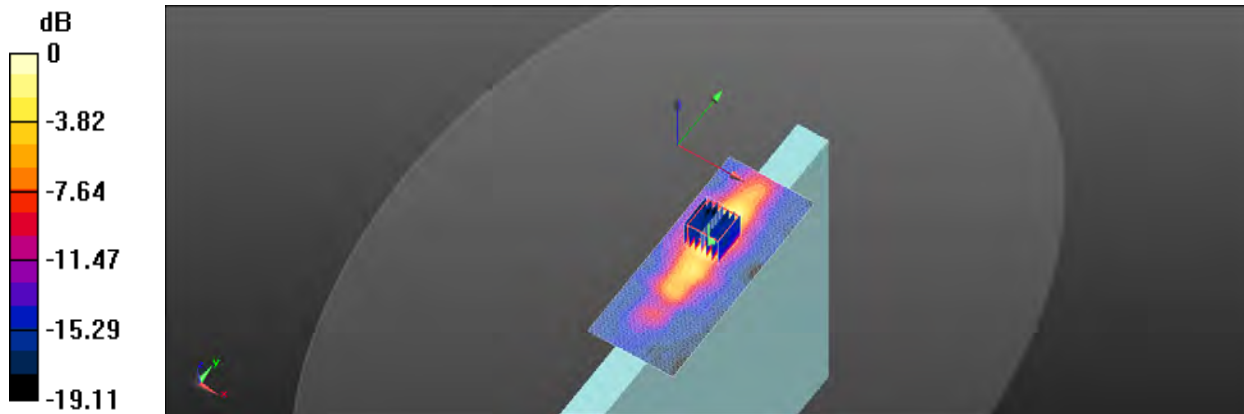
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.937 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.584 W/kg



0 dB = 0.584 W/kg = -2.34 dBW/kg

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Top side_CH 10_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2457 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2457$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 37.611$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.938 W/kg

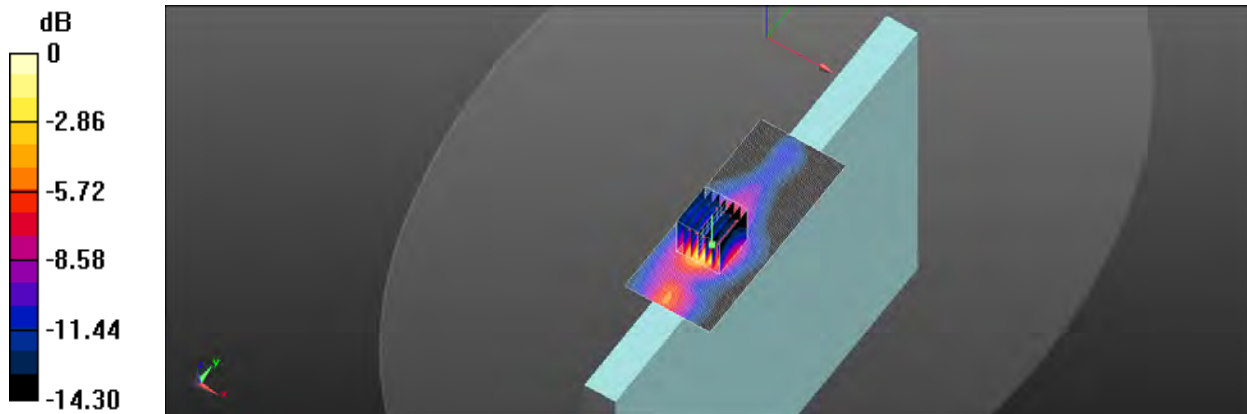
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.121 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 0.915 W/kg



0 dB = 0.915 W/kg = -0.39 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

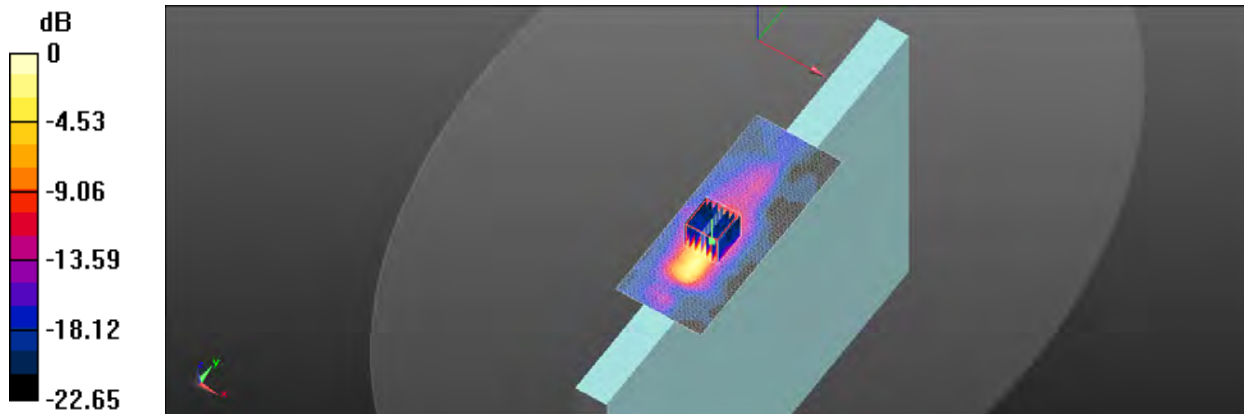
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.373 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.900 W/kg

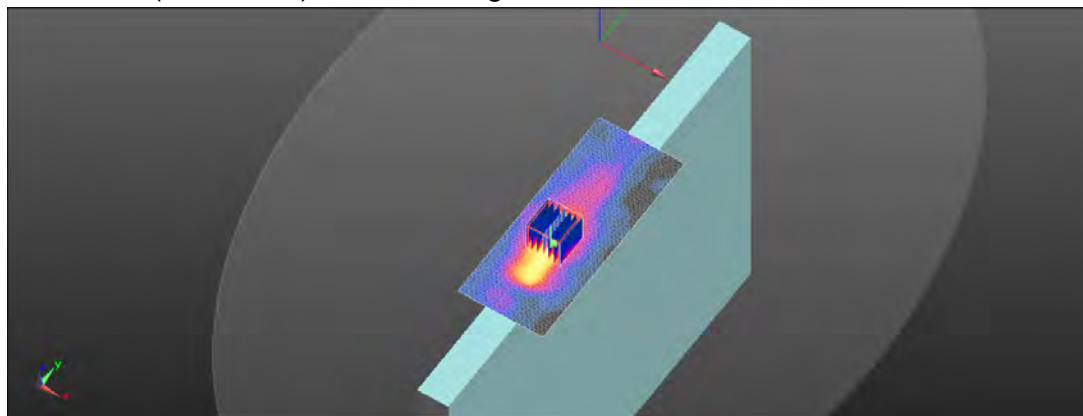
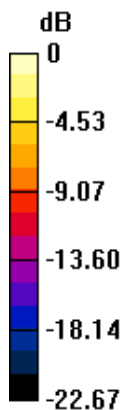
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.218 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.929 W/kg



0 dB = 0.929 W/kg = -0.32 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5570$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.153$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.857 W/kg

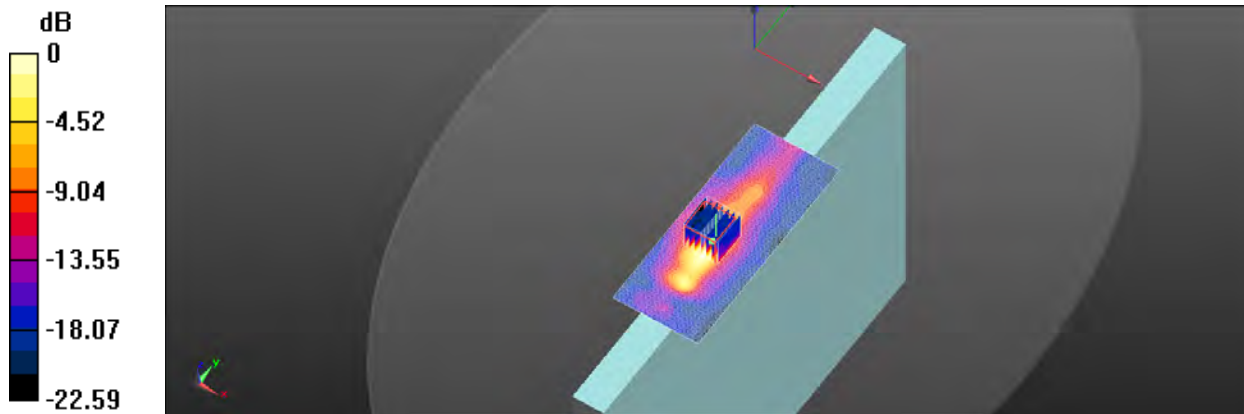
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.987 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.960 W/kg



0 dB = 0.960 W/kg = -0.18 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.773 W/kg

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

Reference Value = 2.991 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.483 W/kg ; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.970 W/kg

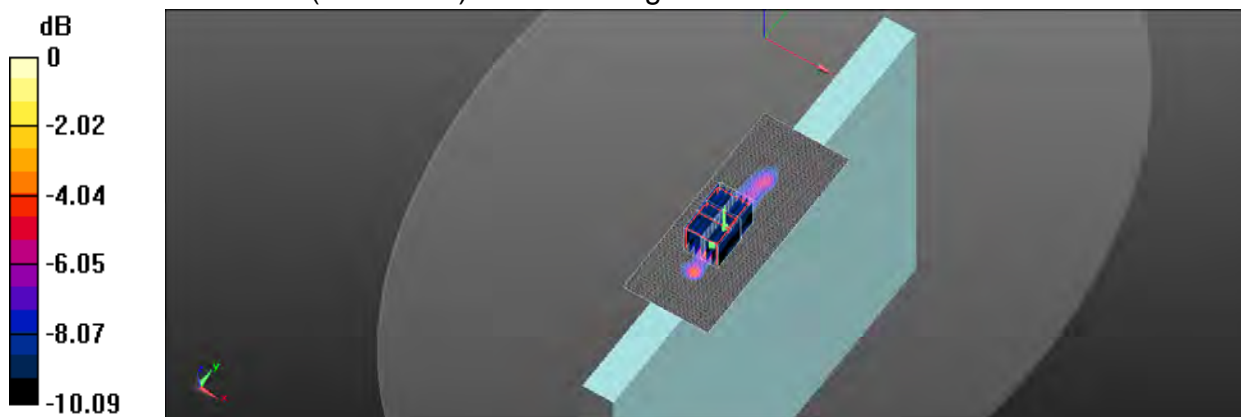
Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.991 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 0.389 W/kg ; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.904 W/kg



0 dB = 0.904 W/kg = -0.44 dBW/kg

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Bottom side_CH 6_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.848 \text{ S/m}$; $\epsilon_r = 37.656$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.0°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

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

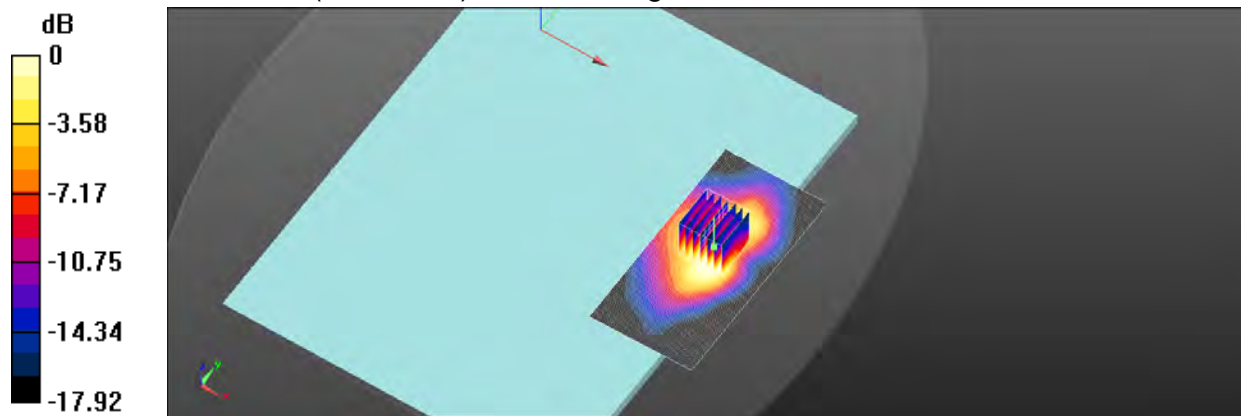
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.372 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.249 W/kg ; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.350 W/kg



0 dB = 0.350 W/kg = -4.56 dBW/kg

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Date: 2019/12/13

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5230$ MHz; $\sigma = 4.519$ S/m; $\epsilon_r = 36.332$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.782 W/kg

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

Reference Value = 2.832 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.758 W/kg

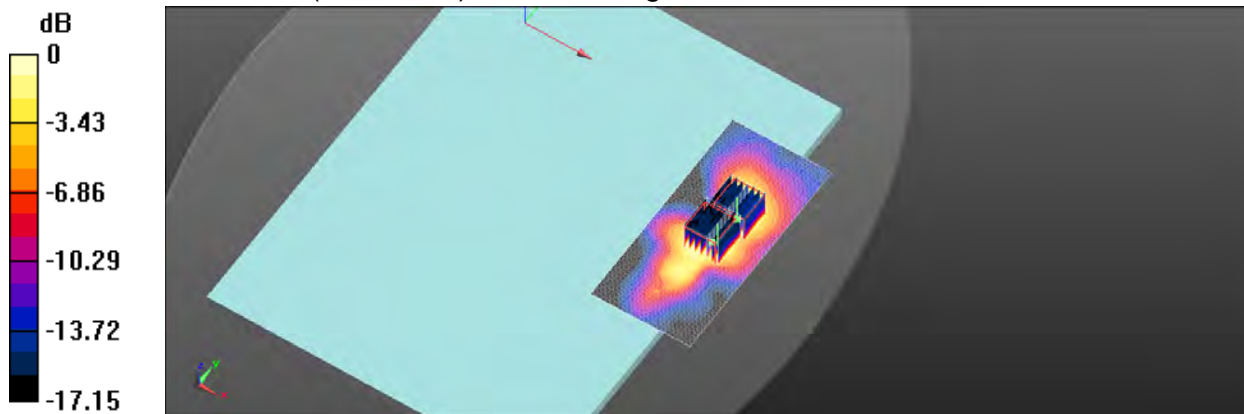
Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.832 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.530 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

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Date: 2019/12/14

WLAN 802.11n(40M) 5.3G_Body_Bottom side_CH 54_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5270$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 36.229$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.749 W/kg

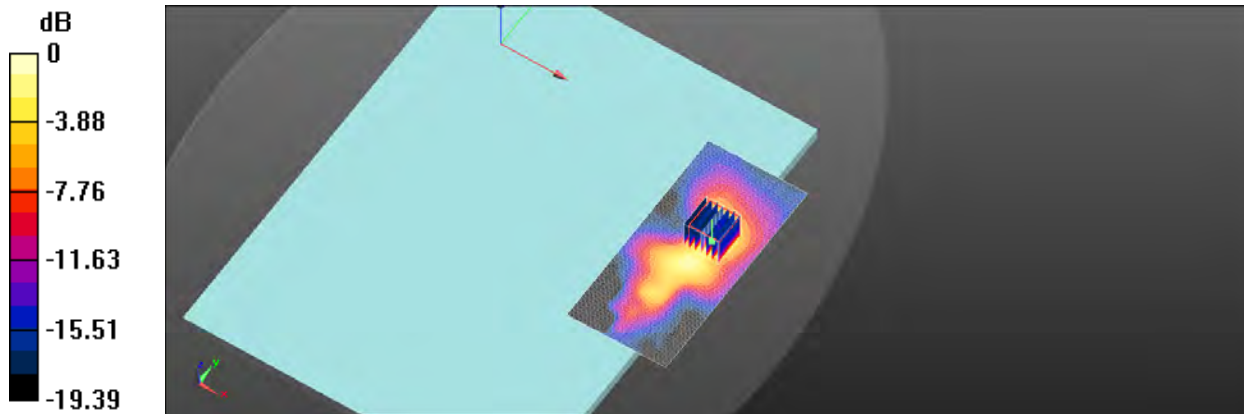
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.788 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.124 W/kg

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



0 dB = 0.724 W/kg = -1.40 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 106_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5530$ MHz; $\sigma = 4.901$ S/m; $\epsilon_r = 35.534$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.458 W/kg

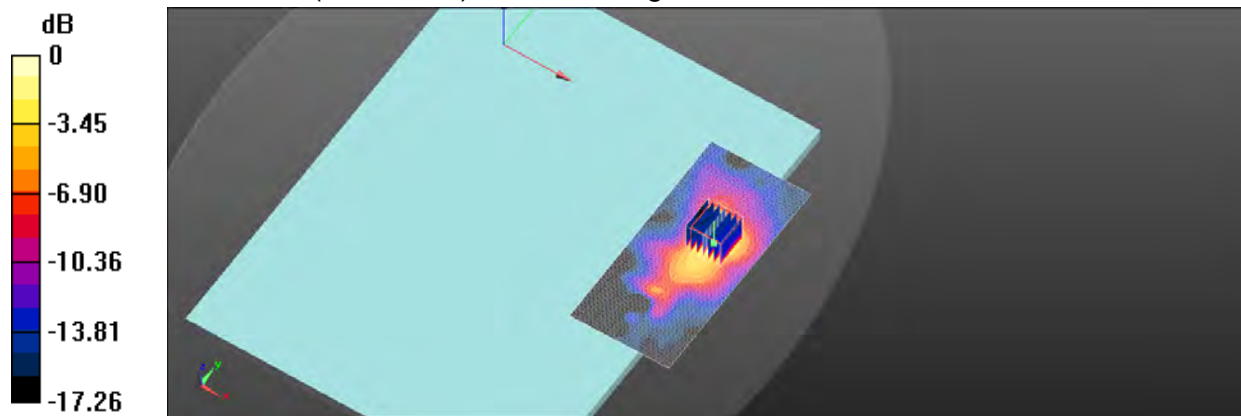
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.714 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



0 dB = 0.447 W/kg = -3.50 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.387 W/kg

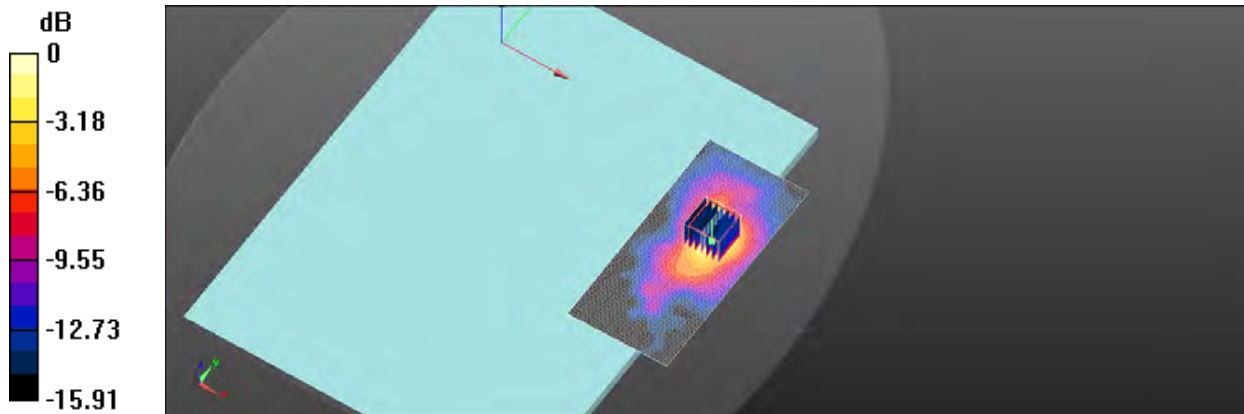
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.444 V/m ; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.191 W/kg ; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.380 W/kg



0 dB = $0.380 \text{ W/kg} = -4.20 \text{ dBW/kg}$

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Bottom side_CH 10_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2457 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2457 \text{ MHz}$; $\sigma = 1.871 \text{ S/m}$; $\epsilon_r = 37.611$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 22.0°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.455 W/kg

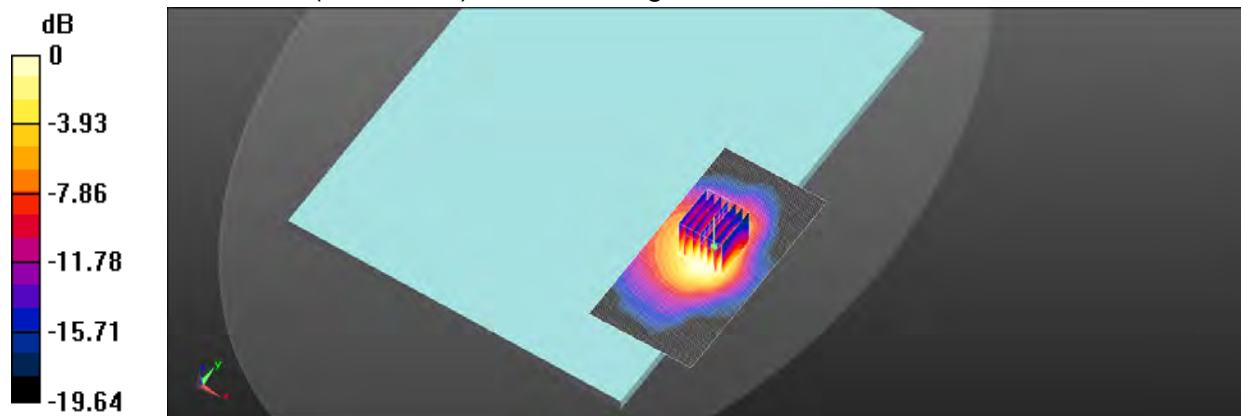
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.868 V/m ; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.313 W/kg ; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = $0.440 \text{ W/kg} = -3.57 \text{ dBW/kg}$

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Date: 2019/12/13

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.519 \text{ S/m}$; $\epsilon_r = 36.332$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

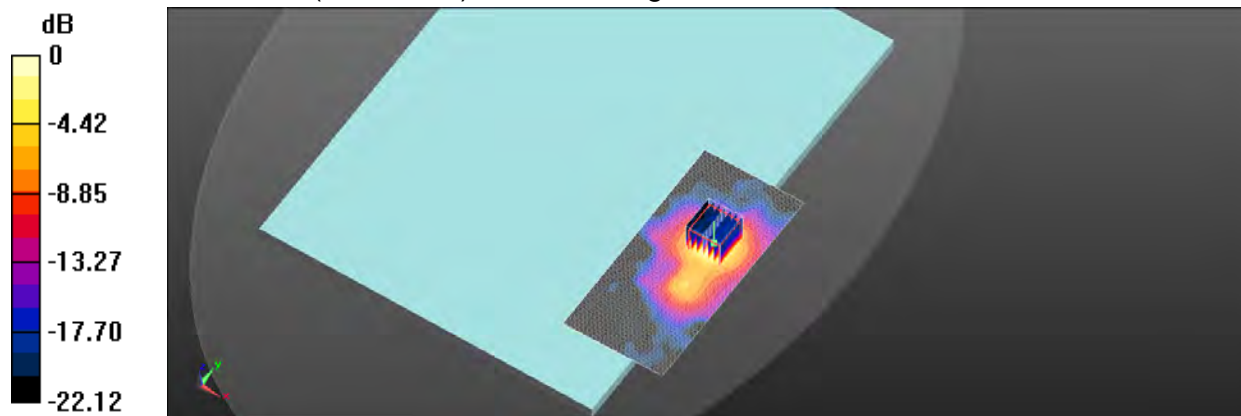
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.318 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.946 W/kg = -0.24 dBW/kg

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Date: 2019/12/14

WLAN 802.11n(40M) 5.3G_Body_Bottom side_CH 54_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5270$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 36.229$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.823 W/kg

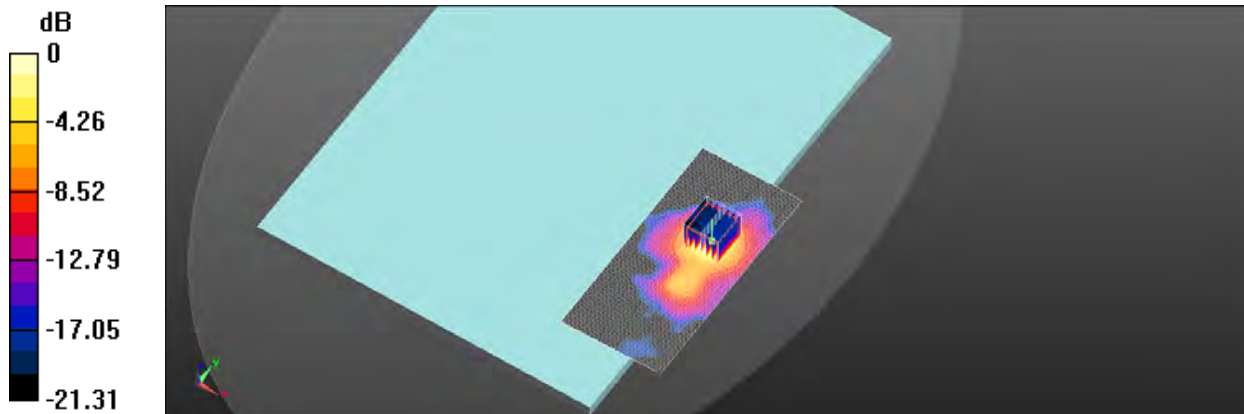
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.461 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 122_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5610 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5610 \text{ MHz}$; $\sigma = 5.033 \text{ S/m}$; $\epsilon_r = 35.096$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.911 W/kg

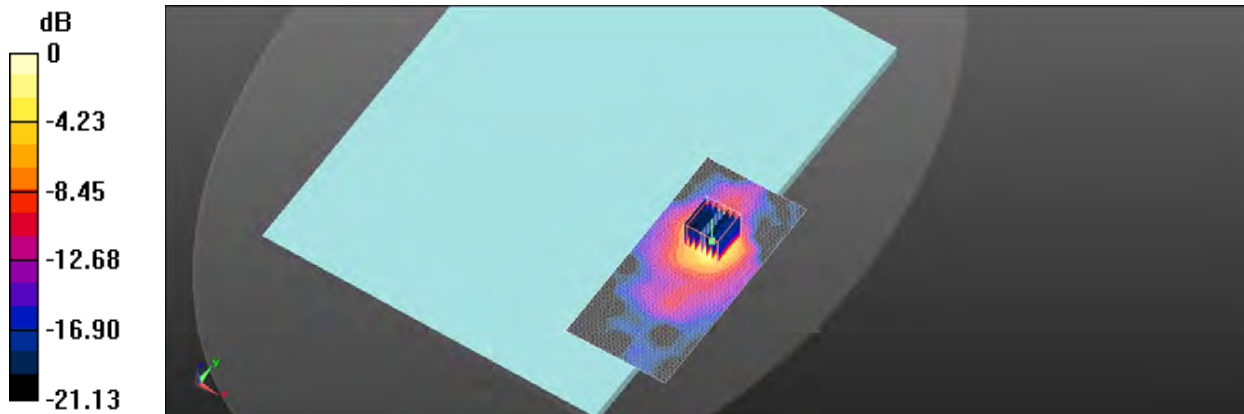
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.921 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.949 W/kg



0 dB = 0.949 W/kg = -0.23 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.730 W/kg

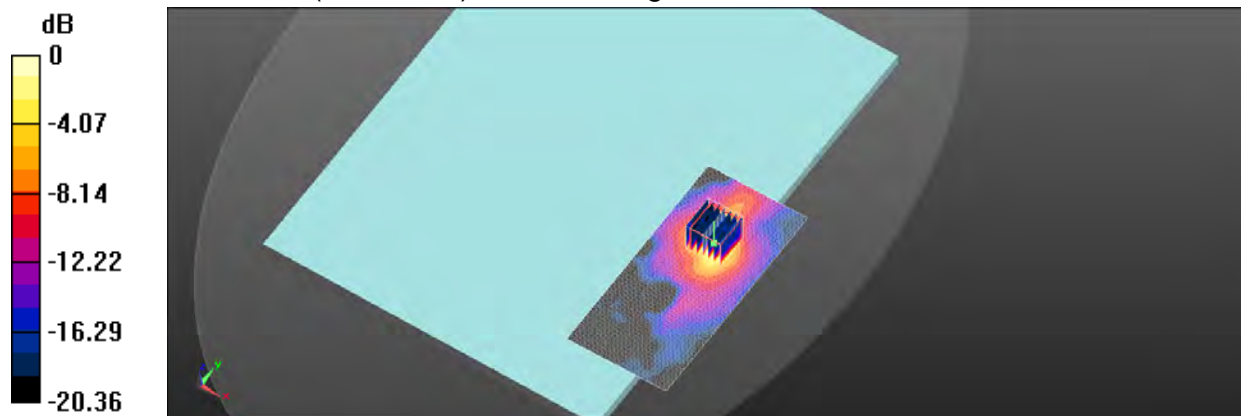
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.179 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.393 W/kg ; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.802 W/kg



0 dB = 0.802 W/kg = -0.96 dBW/kg

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6. SAR System Performance Verification

Date: 2019/12/12

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.863$ S/m; $\epsilon_r = 37.619$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.1 W/kg

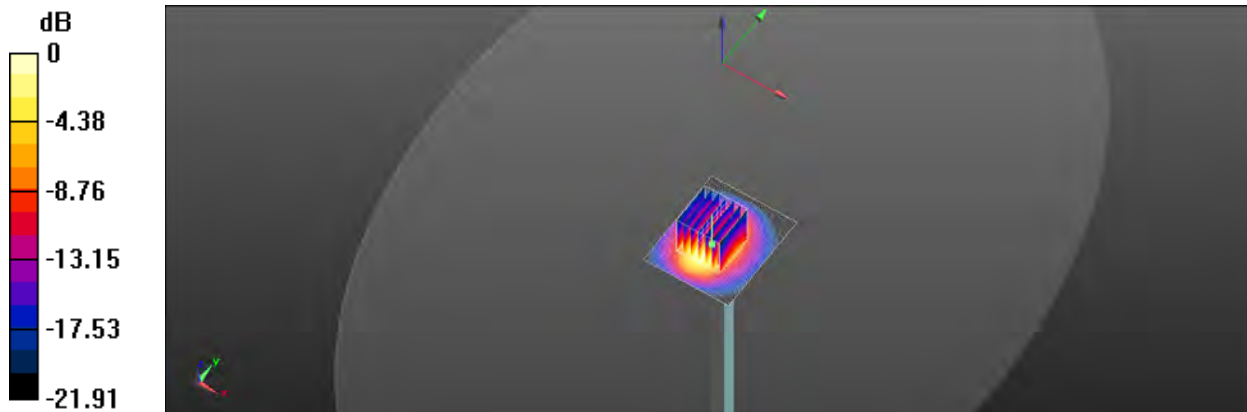
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.55 W/kg

Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

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Date: 2019/12/13

Dipole 5200 MHz_SN:1023

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

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.513$ S/m; $\epsilon_r = 36.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.1 W/kg

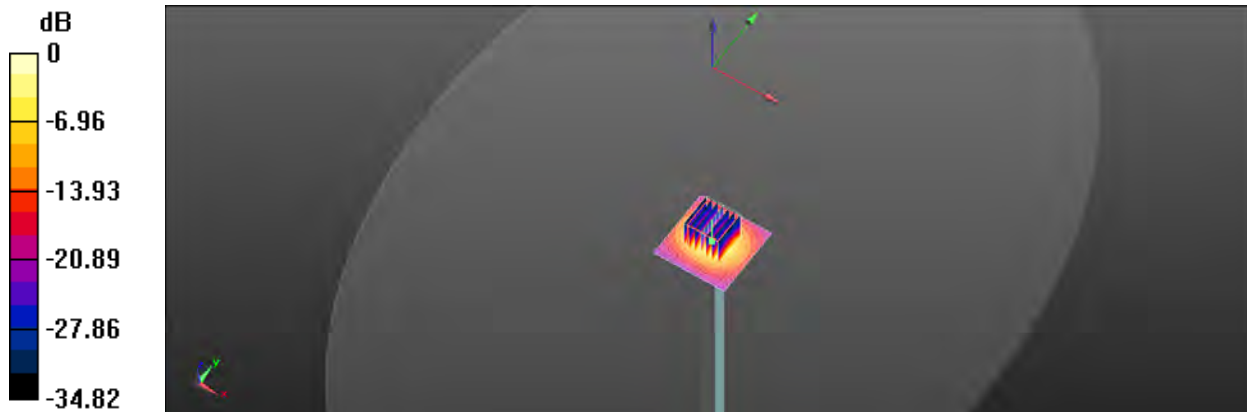
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 64.61 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 35.4 W/kg

SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.3 W/kg

Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.30 dBW/kg

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Date: 2019/12/14

Dipole 5300 MHz_SN:1023

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

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.635$ S/m; $\epsilon_r = 36.214$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

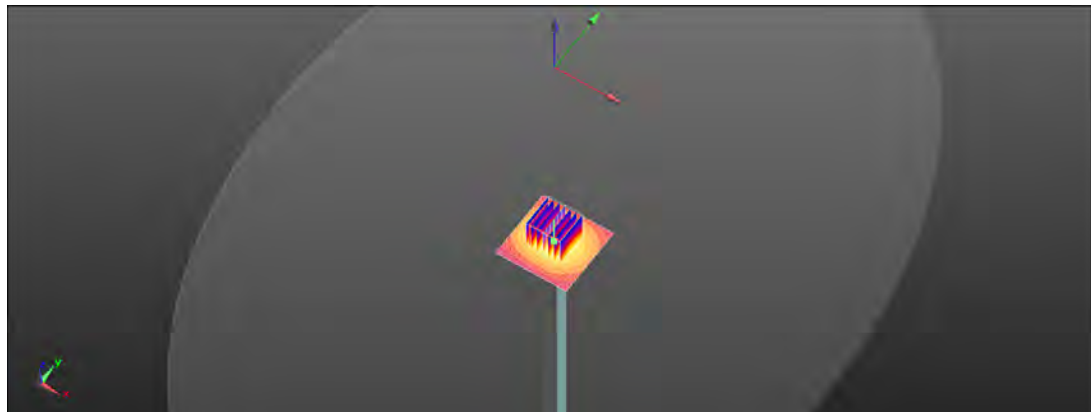
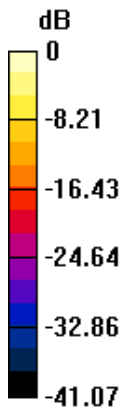
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 65.20 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 37.9 W/kg

SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.37 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

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Date: 2019/12/15

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.003$ S/m; $\epsilon_r = 35.105$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.2 W/kg

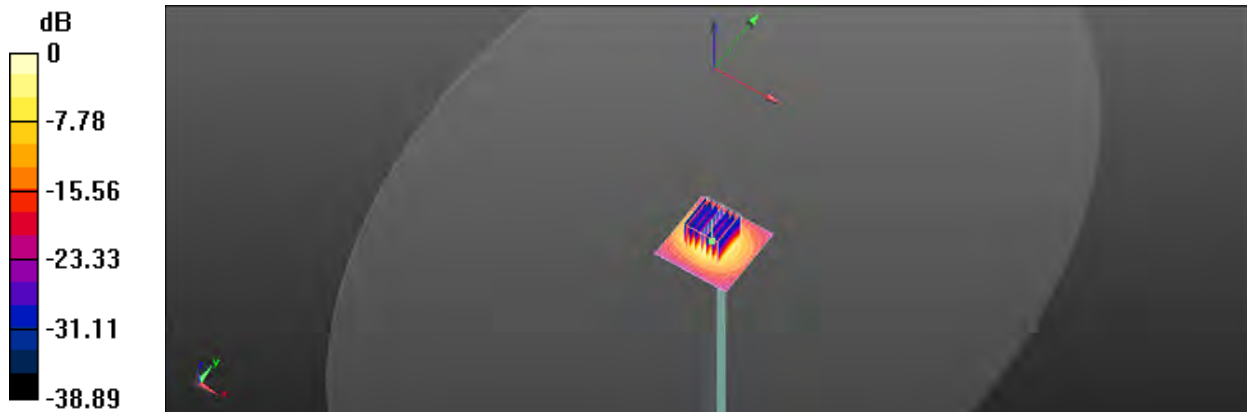
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.42 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 41.5 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 18.0 W/kg



0 dB = 18.0 W/kg = 12.55 dBW/kg

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Date: 2019/12/16

Dipole 5800 MHz_SN:1023

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

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.195 \text{ S/m}$; $\epsilon_r = 34.367$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 17.6 W/kg

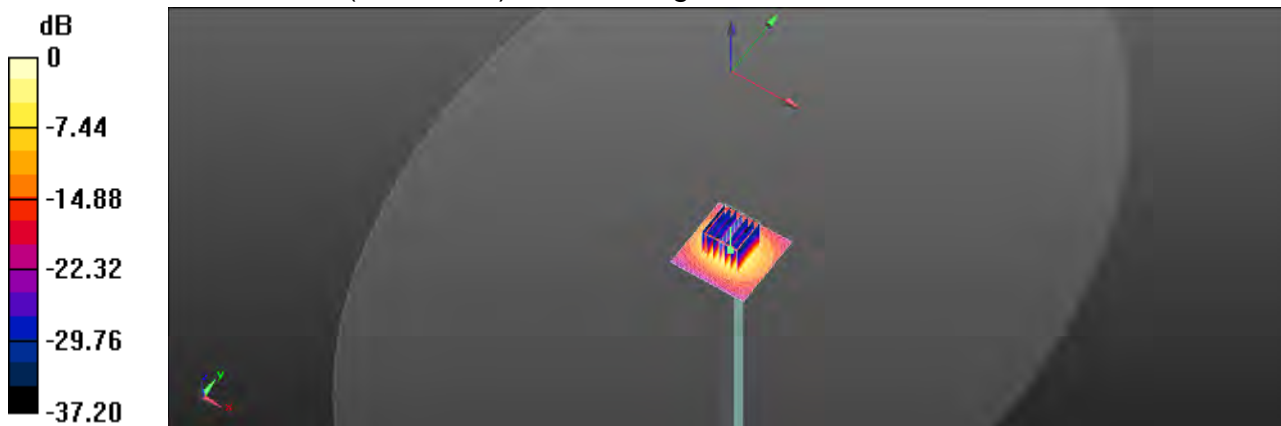
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 61.17 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 41.9 W/kg

SAR(1 g) = 8.13 W/kg ; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 17.5 W/kg



0 dB = 17.5 W/kg = 12.43 dBW/kg

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7. Uncertainty Budget

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

| A | c | D | e | | f | g | h=c * f / e | i=c * g / e | k |
|--|---------------------------|----------------------------|------------|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty | Tolerance/ Uncertainty | Probability 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% | ∞ |
| <i>Isotropy, Axial</i> | 3.50% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.02% | 2.02% | ∞ |
| <i>Isotropy, Hemispherical</i> | 9.60% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 5.54% | 5.54% | ∞ |
| Modulation Response | 2.40% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.40% | 1.40% | ∞ |
| Boundary Effect | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Linearity | 4.70% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.71% | 2.71% | ∞ |
| Detection Limits | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Readout Electronics | 0.30% | N | 1 | 1 | 1 | 1 | 0.30% | 0.30% | ∞ |
| Response time | 0.80% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.46% | 0.46% | ∞ |
| Integration Time | 2.60% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.50% | 1.50% | ∞ |
| Measurement drift (class A evaluation) | 1.75% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.01% | 1.01% | ∞ |
| RF ambient condition - noise | 3.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| RF ambient conditions - reflections | 3.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| Probe positioner Mechanical restrictions | 0.40% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.23% | 0.23% | ∞ |
| Probe Positioning with respect to phantom shell | 2.90% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 1.67% | 1.67% | ∞ |
| Post-processing | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Max SAR Eval | 1.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| 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 | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.89% | 2.89% | ∞ |
| Phantom and Setup | | | | | | | | | |
| Phantom Uncertainty | 4.00% | R | $\sqrt{3}$ | 1.732 | 1 | 1 | 2.31% | 2.31% | ∞ |
| Liquid permittivity (mea.) | 2.64% | N | 1 | 1 | 0.64 | 0.43 | 1.69% | 1.14% | M |
| Liquid Conductivity (mea.) | 3.56% | N | 1 | 1 | 0.6 | 0.49 | 2.14% | 1.74% | M |
| Combined standard uncertainty | | RSS | | | | | 12.03% | 11.89% | |
| Expant uncertainty (95% confidence interval), K=2 | | | | | | | 24.06% | 23.78% | |

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

| A | c | D | e | | f | g | h=c * f / e | i=c * g / e | k |
|---|---------------------------|----------------------------|-----|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty | Tolerance/ Uncertainty | Probability 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% | ∞ |
| <i>Isotropy, Axial</i> | 3.50% | R | √3 | 1.732 | 1 | 1 | 2.02% | 2.02% | ∞ |
| <i>Isotropy, Hemispherical</i> | 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% | ∞ |
| 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) | | | | | | | | | |
| 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.) | 4.05% | N | 1 | 1 | 0.64 | 0.43 | 2.59% | 1.74% | M |
| Liquid Conductivity (mea.) | 3.58% | N | 1 | 1 | 0.6 | 0.49 | 2.15% | 1.75% | M |
| Combined standard uncertainty | | RSS | | | | | 11.90% | 11.67% | |
| Expant uncertainty (95% confidence interval), K=2 | | | | | | | 23.81% | 23.35% | |

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Appendixes

Refer to separated files for the following appendixes.

EN2019C0012 SAR_Appendix A Photographs

EN2019C0012 SAR_Appendix B DAE & Probe Cal. Certificate

EN2019C0012 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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