

1.10.2 SAR System Performance Check Results

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 $\pm 10\%$ (according to KDB865664D01) from the target SAR values. These tests were done at 2450/5250/5600/5750/6500/7000 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. During the tests, the liquid depth above the ear reference points was above 15 cm 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.

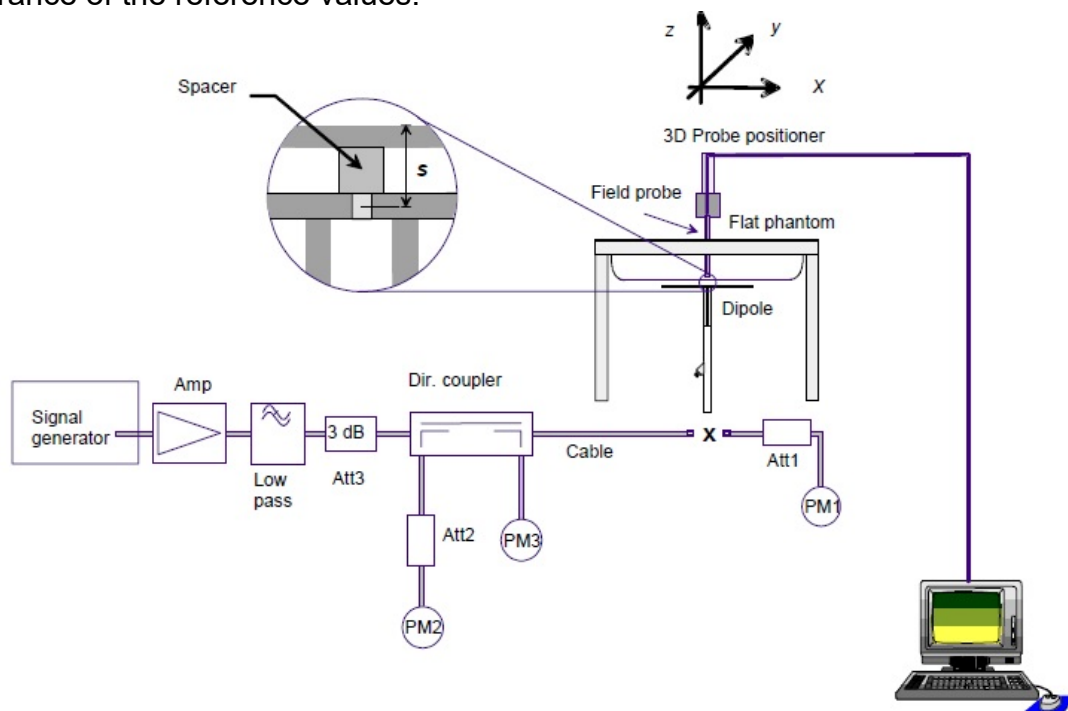


Fig. b The block diagram of system verification

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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	53.9	13.50	54	0.19%	May. 04, 2022

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	5250	Head	81	7.98	79.8	-1.48%	May. 05, 2022
		5600	Head	84.4	8.53	85.3	1.07%	May. 06, 2022
		5750	Head	81	8.06	80.6	-0.49%	May. 07, 2022
D6.5GHzV2	1006	6500	Head	291	29.20	292	0.34%	May. 06, 2022
D6.5GHzV2	1006	6500	Head	291	29.40	294	1.03%	May. 05, 2022
D7GHzV2	1007	7000	Head	275	26.60	266	-3.27%	May. 06, 2022
D7GHzV2	1007	7000	Head	275	26.70	267	-2.91%	May. 05, 2022

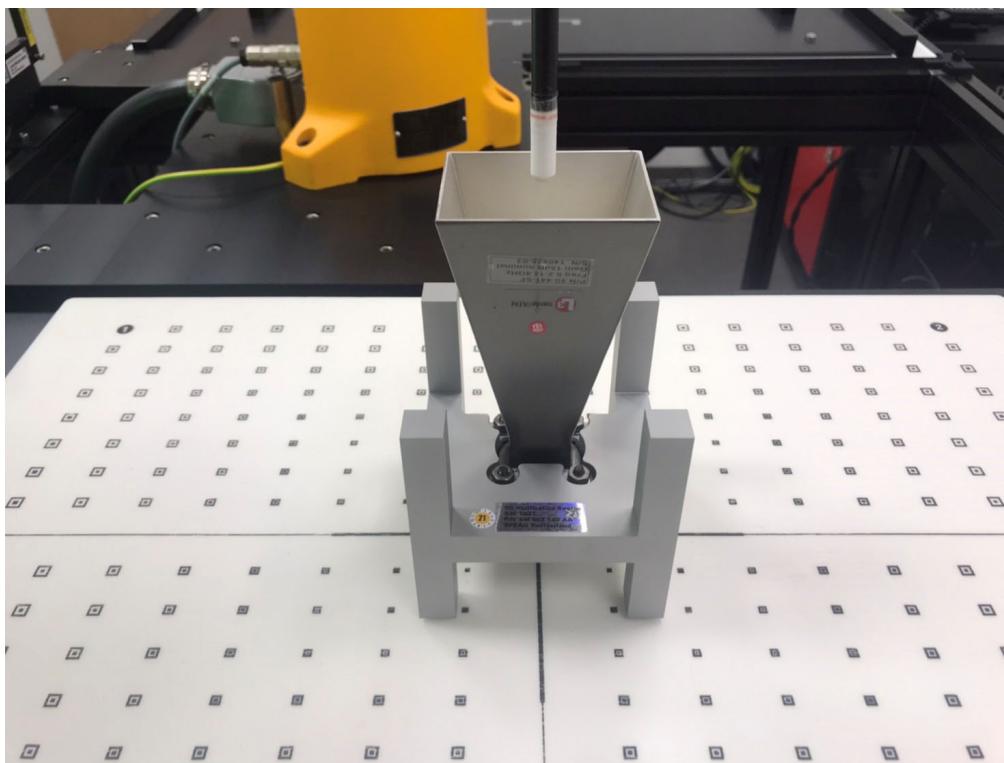
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Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



System Verification Setup Photo

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PD System Verification Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (GHz)	PD Verification Source	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10G	10G	9579	558	10	86.1	54.2	51.7	0.21	May. 07, 2022

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1.10.3 SAR Tissue Verification

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

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

The depth of the tissue simulant in the flat section of the phantom was $\geq 15 \text{ cm} \pm 5 \text{ mm}$ 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	May, 04. 2022	2402	39.282	1.757	39.496	1.772	0.54%	0.83%
		2412	39.265	1.766	39.458	1.782	0.49%	0.89%
		2437	39.222	1.788	39.394	1.804	0.44%	0.87%
		2441	39.215	1.792	39.389	1.808	0.44%	0.89%
		2450	39.200	1.800	39.372	1.816	0.44%	0.89%
		2462	39.184	1.813	39.354	1.828	0.43%	0.84%
	May, 05. 2022	2480	39.160	1.832	39.32	1.847	0.41%	0.82%
		5210	35.974	4.665	36.159	4.642	0.51%	-0.50%
		5250	35.950	4.710	36.073	4.687	0.34%	-0.49%
	May, 06. 2022	5290	35.883	4.747	35.946	4.744	0.18%	-0.07%
		5530	35.609	4.993	35.662	5.024	0.15%	0.62%
		5570	35.563	5.034	35.594	5.077	0.09%	0.85%
		5600	35.500	5.070	35.523	5.114	0.06%	0.87%
	May, 07. 2022	5610	35.517	5.075	35.51	5.123	-0.02%	0.94%
		5690	35.426	5.157	35.334	5.215	-0.26%	1.12%
	May, 05. 2022	5750	35.350	5.220	35.157	5.282	-0.55%	1.19%
		5775	35.329	5.244	35.039	5.311	-0.82%	1.27%
		6025	35.070	5.510	36.175	5.66	3.15%	2.73%
		6185	34.878	5.698	35.952	5.857	3.08%	2.79%
		6345	34.686	5.887	35.73	6.052	3.01%	2.80%
		6500	34.500	6.070	35.543	6.242	3.02%	2.83%
		6505	34.494	6.076	35.53	6.249	3.00%	2.85%
		6665	34.302	6.261	35.318	6.44	2.96%	2.85%
		6825	34.110	6.447	35.112	6.623	2.94%	2.73%
		6865	34.062	6.493	35.064	6.671	2.94%	2.74%
	May, 06. 2022	6945	33.966	6.586	34.96	6.77	2.93%	2.79%
		6985	33.918	6.633	34.911	6.816	2.93%	2.77%
		7000	33.900	6.650	34.898	6.835	2.94%	2.78%
		7025	33.870	6.680	34.875	6.865	2.97%	2.78%
		6025	35.070	5.510	36.085	5.632	2.89%	2.22%
		6185	34.878	5.698	35.862	5.825	2.82%	2.22%
		6345	34.686	5.887	35.64	6.022	2.75%	2.29%
		6500	34.500	6.070	35.453	6.21	2.76%	2.31%
		6505	34.494	6.076	35.44	6.217	2.74%	2.32%
		6665	34.302	6.261	35.228	6.408	2.70%	2.34%
		6825	34.110	6.447	35.022	6.593	2.67%	2.26%
		6865	34.062	6.493	34.974	6.64	2.68%	2.26%
		6945	33.966	6.586	34.87	6.738	2.66%	2.30%
		6985	33.918	6.633	34.821	6.786	2.66%	2.31%
		7000	33.900	6.650	34.808	6.802	2.68%	2.29%
		7025	33.870	6.680	34.785	6.834	2.70%	2.31%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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1.11 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 HSL2450/5250/5600/5750/6500/7000 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.6 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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.	
		Device Holder

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1.12 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 a 10 grams of tissue (defined as a tissue volume in the shape of a cube).

Occupational/Controlled limits apply when persons are exposed as a 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.

2. 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).

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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 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 .6)

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

RF Exposure limit for above 6GHz

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

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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

Table. RF exposure limits

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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 and IEC/IEEE 62209-1528:2020:

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

2.2 Summary of SAR Results

High-Tek Notebook mode

WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	16.00	15.96	1.02	100.93%	0.414	0.425	87
WLAN 802.11b	Bottom Surface	0	6	2437	16.00	15.98	1.02	100.46%	0.362	0.370	-
WLAN 802.11b	Bottom Surface	0	11	2462	16.00	15.99	1.02	100.23%	0.399	0.407	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Bottom Surface	0	50	5250	14.50	14.49	1.03	100.23%	0.533	0.551	88

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	14.50	14.49	1.03	100.23%	0.541	0.559	89

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	15.00	14.98	1.03	100.46%	0.741	0.767	90

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	16.50	16.48	1.03	100.46%	0.933	0.966	91
WLAN 802.11ac(80M) 5.8G	Bottom Surface*	0	155	5775	16.50	16.48	1.03	100.46%	0.924	0.957	-

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	15.50	15.48	1.02	100.46%	0.161	0.164	-
WLAN 802.11b	Bottom Surface	0	6	2437	15.50	15.44	1.02	101.39%	0.175	0.180	-
WLAN 802.11b	Bottom Surface	0	11	2462	15.50	15.46	1.02	100.93%	0.189	0.194	92

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Bluetooth(GFSK)	Bottom Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.043	0.086	93

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Bottom Surface	0	42	5210	17.50	16.87	1.03	115.74%	0.335	0.400	94

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	17.50	17.47	1.03	100.69%	0.345	0.358	95

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	138	5690	17.25	17.24	1.03	100.23%	0.374	0.386	96

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	17.50	17.48	1.03	100.46%	0.405	0.419	97

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

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Tablet mode

WLAN Main

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11b	WLAN Main	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.852	0.870	98
WLAN 802.11b	WLAN Main	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.845	0.863	-
WLAN 802.11b	WLAN Main	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.774	0.794	-
WLAN 802.11b	WLAN Main	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.153	0.156	-
WLAN 802.11b	WLAN Main	Left Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.023	0.024	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	WLAN Main	Back Surface	0	50	5250	10.00	9.99	1.03	100.23%	0.404	0.417	99
WLAN 802.11ac(160M) 5.2G	WLAN Main	Top Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.328	0.339	-
WLAN 802.11ac(160M) 5.2G	WLAN Main	Left Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.011	0.011	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	WLAN Main	Back Surface	0	58	5290	10.00	9.98	1.03	100.46%	0.379	0.393	100
WLAN 802.11ac(80M) 5.3G	WLAN Main	Top Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.339	0.351	-
WLAN 802.11ac(80M) 5.3G	WLAN Main	Left Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.013	0.013	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.6G	WLAN Main	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.546	0.564	101
WLAN 802.11ac(160M) 5.6G	WLAN Main	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.455	0.470	-
WLAN 802.11ac(160M) 5.6G	WLAN Main	Left Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.012	0.013	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	WLAN Main	Back Surface	0	155	5775	9.00	8.99	1.03	100.23%	0.594	0.614	102
WLAN 802.11ac(80M) 5.8G	WLAN Main	Top Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.142	0.147	-
WLAN 802.11ac(80M) 5.8G	WLAN Main	Left Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.012	0.013	-

WLAN Aux

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11b	WLAN Aux	Back Surface	0	1	2412	12.50	12.46	1.02	100.93%	0.674	0.692	-
WLAN 802.11b	WLAN Aux	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.737	0.753	-
WLAN 802.11b	WLAN Aux	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.785	0.785	103
WLAN 802.11b	WLAN Aux	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.224	0.229	-
WLAN 802.11b	WLAN Aux	Right Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.091	0.093	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Bluetooth(GFSK)	WLAN Aux	Back Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.374	0.754	104
Bluetooth(GFSK)	WLAN Aux	Top Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.084	0.169	-
Bluetooth(GFSK)	WLAN Aux	Right Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.041	0.083	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Back Surface	0	50	5250	10.50	10.48	1.03	100.46%	0.656	0.679	105
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Top Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.312	0.323	-
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Right Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.011	0.011	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Back Surface	0	58	5290	10.50	10.49	1.03	100.23%	0.622	0.643	106
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Top Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.296	0.275	-
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Right Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.014	0.015	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.6G	WLAN Aux	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.721	0.745	107
WLAN 802.11ac(160M) 5.6G	WLAN Aux	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.161	0.166	-
WLAN 802.11ac(160M) 5.6G	WLAN Aux	Right Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.012	0.013	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Back Surface	0	155	5775	8.50	8.48	1.03	100.46%	0.613	0.635	108
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Top Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.081	0.084	-
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Right Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.011	0.012	-

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

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

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PULSE

Notebook mode

WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	16.00	15.96	1.02	100.93%	0.385	0.395	-
WLAN 802.11b	Bottom Surface	0	6	2437	16.00	15.98	1.02	100.46%	0.342	0.349	-
WLAN 802.11b	Bottom Surface	0	11	2462	16.00	15.99	1.02	100.23%	0.398	0.406	109

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Bottom Surface	0	50	5250	14.50	14.49	1.03	100.23%	0.471	0.487	110

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	14.50	14.49	1.03	100.23%	0.494	0.510	111

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	15.00	14.98	1.03	100.46%	0.660	0.684	112

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	16.50	16.48	1.03	100.46%	0.778	0.806	113

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	15.50	15.48	1.02	100.46%	0.146	0.149	-
WLAN 802.11b	Bottom Surface	0	6	2437	15.50	15.44	1.02	101.39%	0.151	0.156	-
WLAN 802.11b	Bottom Surface	0	11	2462	15.50	15.46	1.02	100.93%	0.167	0.171	114

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Bluetooth(GFSK)	Bottom Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.044	0.088	115

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.2G	Bottom Surface	0	42	5210	17.50	16.87	1.03	115.74%	0.392	0.468	116

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	17.50	17.47	1.03	100.69%	0.376	0.390	117

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	138	5690	17.25	17.24	1.03	100.23%	0.303	0.313	118

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	17.50	17.48	1.03	100.46%	0.319	0.330	119

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

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Tablet mode

WLAN Main

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11b	WLAN Main	Back Surface	0	1	2412	12.50	12.45	1.02	101.16%	0.884	0.909	-
WLAN 802.11b	WLAN Main	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.708	0.723	-
WLAN 802.11b	WLAN Main	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.887	0.910	120
WLAN 802.11b	WLAN Main	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.149	0.152	-
WLAN 802.11b	WLAN Main	Left Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.078	0.079	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	WLAN Main	Back Surface	0	50	5250	10.00	9.99	1.03	100.23%	0.312	0.322	121
WLAN 802.11ac(160M) 5.2G	WLAN Main	Top Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.307	0.317	-
WLAN 802.11ac(160M) 5.2G	WLAN Main	Left Edge	0	50	5250	10.00	9.99	1.03	100.23%	0.010	0.010	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	WLAN Main	Back Surface	0	58	5290	10.00	9.98	1.03	100.46%	0.347	0.369	122
WLAN 802.11ac(80M) 5.3G	WLAN Main	Top Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.223	0.231	-
WLAN 802.11ac(80M) 5.3G	WLAN Main	Left Edge	0	58	5290	10.00	9.98	1.03	100.46%	0.012	0.012	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.6G	WLAN Main	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.479	0.495	123
WLAN 802.11ac(160M) 5.6G	WLAN Main	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.251	0.274	-
WLAN 802.11ac(160M) 5.6G	WLAN Main	Left Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.011	0.011	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	WLAN Main	Back Surface	0	155	5775	9.00	8.99	1.03	100.23%	0.469	0.485	124
WLAN 802.11ac(80M) 5.8G	WLAN Main	Top Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.251	0.259	-
WLAN 802.11ac(80M) 5.8G	WLAN Main	Left Edge	0	155	5775	9.00	8.99	1.03	100.23%	0.008	0.009	-

WLAN Aux

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11b	WLAN Aux	Back Surface	0	1	2412	12.50	12.46	1.02	100.93%	0.654	0.671	-
WLAN 802.11b	WLAN Aux	Back Surface	0	6	2437	12.50	12.48	1.02	100.46%	0.638	0.652	-
WLAN 802.11b	WLAN Aux	Back Surface	0	11	2462	12.50	12.46	1.02	100.93%	0.714	0.733	125
WLAN 802.11b	WLAN Aux	Top Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.144	0.147	-
WLAN 802.11b	WLAN Aux	Right Edge	0	6	2437	12.50	12.48	1.02	100.46%	0.083	0.084	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
Bluetooth(GFSK)	WLAN Aux	Back Surface	0	78	2480	11.00	9.21	1.34	151.01%	0.362	0.730	126
Bluetooth(GFSK)	WLAN Aux	Top Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.077	0.154	-
Bluetooth(GFSK)	WLAN Aux	Right Edge	0	78	2480	11.00	9.21	1.34	151.01%	0.036	0.073	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Back Surface	0	50	5250	10.50	10.48	1.03	100.46%	0.525	0.544	127
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Top Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.121	0.125	-
WLAN 802.11ac(160M) 5.2G	WLAN Aux	Right Edge	0	50	5250	10.50	10.48	1.03	100.46%	0.017	0.018	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Back Surface	0	58	5290	10.50	10.49	1.03	100.23%	0.500	0.517	128
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Top Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.116	0.120	-
WLAN 802.11ac(80M) 5.3G	WLAN Aux	Right Edge	0	58	5290	10.50	10.49	1.03	100.23%	0.016	0.017	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(160M) 5.6G	WLAN Aux	Back Surface	0	114	5570	9.50	9.49	1.03	100.23%	0.571	0.590	129
WLAN 802.11ac(160M) 5.6G	WLAN Aux	Top Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.124	0.128	-
WLAN 802.11ac(160M) 5.6G	WLAN Aux	Right Edge	0	114	5570	9.50	9.49	1.03	100.23%	0.022	0.023	-

Mode	Antenna	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Back Surface	0	155	5775	8.50	8.48	1.03	100.46%	0.494	0.512	130
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Top Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.128	0.133	-
WLAN 802.11ac(80M) 5.8G	WLAN Aux	Right Edge	0	155	5775	8.50	8.48	1.03	100.46%	0.023	0.024	-

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WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	12.86	1.02	115.88%	0.324	0.383	0.21	-
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	13.50	12.83	1.02	116.68%	0.335	0.399	0.217	131

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.447	0.499	0.292	132

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	12.75	12.72	1.02	100.69%	0.352	0.362	0.241	133
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	12.75	12.65	1.02	102.33%	0.298	0.311	0.211	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	12.75	12.69	1.02	101.39%	0.286	0.295	0.205	134

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	12.97	1.02	112.98%	0.129	0.149	0.0788	135
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	13.50	12.95	1.02	113.50%	0.112	0.130	0.102	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.185	0.206	0.123	136

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	12.75	12.49	1.02	106.17%	0.223	0.241	0.152	137
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	12.75	12.47	1.02	106.66%	0.102	0.111	0.072	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	12.75	12.74	1.02	100.23%	0.243	0.248	0.147	138

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Tablet mode

WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5.6.2GHz802.11ax(160M)	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.618	0.633	0.372	-
U-NII-5.6.2GHz802.11ax(160M)	Top Edge	0	47	6185	9.00	8.97	1.02	100.69%	0.696	0.715	0.374	-
U-NII-5.6.2GHz802.11ax(160M)	Top Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.726	0.744	0.388	139
U-NII-5.6.2GHz802.11ax(160M)	Left Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.002	0.002	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6.6.5GHz802.11ax(160M)	Back Surface	0	111	6505	9.00	8.99	1.02	100.23%	0.772	0.789	0.46	-
U-NII-6.6.5GHz802.11ax(160M)	Top Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.861	0.880	0.461	140
U-NII-6.6.5GHz802.11ax(160M)	Left Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.004	0.004	0.002	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7.6.7GHz802.11ax(160M)	Back Surface	0	143	6665	9.00	8.98	1.02	100.46%	0.678	0.695	0.415	-
U-NII-7.6.7GHz802.11ax(160M)	Top Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.841	0.862	0.451	141
U-NII-7.6.7GHz802.11ax(160M)	Top Edge	0	175	6825	9.00	8.97	1.02	100.69%	0.766	0.787	0.437	-
U-NII-7.6.7GHz802.11ax(160M)	Left Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.006	0.006	0.003	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8.7.0GHz802.11ax(80M)	Back Surface	0	183	6865	9.00	8.95	1.02	101.16%	0.620	0.640	0.401	-
U-NII-8.7.0GHz802.11ax(80M)	Top Edge	0	183	6865	9.00	8.95	1.02	101.16%	0.773	0.798	0.432	142
U-NII-8.7.0GHz802.11ax(80M)	Left Edge	0	183	6865	9.00	8.95	1.02	101.16%	0.003	0.003	0.002	-

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5.6.2GHz802.11ax(160M)	Back Surface	0	47	6185	9.00	8.99	1.02	100.23%	0.595	0.608	0.368	143
U-NII-5.6.2GHz802.11ax(160M)	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.544	0.557	0.327	-
U-NII-5.6.2GHz802.11ax(160M)	Top Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.189	0.193	0.125	-
U-NII-5.6.2GHz802.11ax(160M)	Right Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.029	0.030	0.0138	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6.6.5GHz802.11ax(160M)	Back Surface	0	111	6505	9.00	8.98	1.02	100.46%	0.370	0.379	0.233	144
U-NII-6.6.5GHz802.11ax(160M)	Top Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.189	0.194	0.102	-
U-NII-6.6.5GHz802.11ax(160M)	Right Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.016	0.016	0.007	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7.6.7GHz802.11ax(160M)	Back Surface	0	143	6665	9.00	8.99	1.02	100.23%	0.454	0.464	0.319	145
U-NII-7.6.7GHz802.11ax(160M)	Top Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.301	0.308	0.165	-
U-NII-7.6.7GHz802.11ax(160M)	Right Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.027	0.028	0.0134	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8.7.0GHz802.11ax(80M)	Back Surface	0	183	6865	9.00	8.97	1.03	100.69%	0.617	0.641	0.401	146
U-NII-8.7.0GHz802.11ax(80M)	Top Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.400	0.415	0.221	-
U-NII-8.7.0GHz802.11ax(80M)	Right Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.020	0.021	0.0113	-

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PULSE Notebook mode

WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	12.86	1.02	115.88%	0.263	0.311	0.171	147
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	13.50	12.83	1.02	116.68%	0.242	0.288	0.149	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.344	0.384	0.231	148

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	12.75	12.72	1.02	100.69%	0.266	0.273	0.185	149

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	12.75	12.69	1.02	101.39%	0.214	0.221	0.159	150

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	13.50	12.97	1.02	112.98%	0.100	0.115	0.0821	151
U-NII-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	13.50	12.95	1.02	113.50%	0.084	0.097	0.0513	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	13.50	13.11	1.02	109.40%	0.142	0.158	0.0945	152

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	12.75	12.49	1.02	106.17%	0.155	0.168	0.105	153

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	12.75	12.74	1.02	100.23%	0.109	0.111	0.0762	154

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WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.443	0.454	0.264	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	47	6185	9.00	8.97	1.02	100.69%	0.513	0.527	0.27	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.541	0.554	0.28	155
U-NII-5 6.2GHz802.11ax(160M)	Left Edge	0	79	6345	9.00	8.98	1.02	100.46%	0.004	0.004	0.002	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	9.00	8.99	1.02	100.23%	0.527	0.539	0.314	-
U-NII-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.678	0.693	0.356	156
U-NII-6 6.5GHz802.11ax(160M)	Left Edge	0	111	6505	9.00	8.99	1.02	100.23%	0.005	0.005	0.003	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	9.00	8.98	1.02	100.46%	0.526	0.539	0.321	-
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.702	0.719	0.369	157
U-NII-7 6.7GHz802.11ax(160M)	Left Edge	0	143	6665	9.00	8.98	1.02	100.46%	0.008	0.008	0.004	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8 7.0GHz802.11ax(80M)	Back Surface	0	183	6865	9.00	8.95	1.03	101.16%	0.498	0.519	0.324	-
U-NII-8 7.0GHz802.11ax(80M)	Top Edge	0	183	6865	9.00	8.95	1.03	101.16%	0.644	0.672	0.356	158
U-NII-8 7.0GHz802.11ax(80M)	Left Edge	0	183	6865	9.00	8.95	1.03	101.16%	0.006	0.006	0.003	-

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	47	6185	9.00	8.99	1.02	100.23%	0.536	0.548	0.333	159
U-NII-5 6.2GHz802.11ax(160M)	Back Surface	0	79	6345	9.00	8.98	1.02	100.46%	0.530	0.543	0.323	-
U-NII-5 6.2GHz802.11ax(160M)	Top Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.124	0.127	0.0825	-
U-NII-5 6.2GHz802.11ax(160M)	Right Edge	0	47	6185	9.00	8.99	1.02	100.23%	0.013	0.013	0.007	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	9.00	8.98	1.02	100.46%	0.412	0.422	0.256	160
U-NII-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.158	0.162	0.0826	-
U-NII-6 6.5GHz802.11ax(160M)	Right Edge	0	111	6505	9.00	8.98	1.02	100.46%	0.011	0.011	0.005	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	9.00	8.99	1.02	100.23%	0.416	0.425	0.281	161
U-NII-7 6.7GHz802.11ax(160M)	Top Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.241	0.246	0.151	-
U-NII-7 6.7GHz802.11ax(160M)	Right Edge	0	143	6665	9.00	8.99	1.02	100.23%	0.009	0.009	0.006	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	Plot page
									Measured	Reported		
U-NII-8 7.0GHz802.11ax(80M)	Back Surface	0	183	6865	9.00	8.97	1.03	100.69%	0.526	0.546	0.34	162
U-NII-8 7.0GHz802.11ax(80M)	Top Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.298	0.309	0.154	-
U-NII-8 7.0GHz802.11ax(80M)	Right Edge	0	183	6865	9.00	8.97	1.03	100.69%	0.014	0.015	0.007	-

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2.3 Summary of PD Results

High-Tek

WLAN Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				Plot page
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Edge	2	47	6185	9.00	8.92	101.86%	1.02	1.55	0.186	0.300	0.163	0.262	163
	Top Edge	2	79	6345	9.00	8.92	101.86%	1.02	1.55	0.197	0.317	0.184	0.296	164
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	9.00	8.92	101.86%	1.02	1.55	0.218	0.351	0.200	0.322	165
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	143	6665	9.00	8.92	101.86%	1.02	1.55	0.256	0.412	0.221	0.356	166
WLAN 6E 802.11ax(80M) U-NII-8	Top Edge	2	183	6865	9.00	8.92	101.86%	1.02	1.55	0.271	0.436	0.221	0.356	167

WLAN Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				Plot page
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	47	6185	9.00	8.97	100.69%	1.02	1.55	0.152	0.242	0.140	0.223	168
	Back Surface	2	79	6345	9.00	8.97	100.69%	1.02	1.55	0.152	0.242	0.137	0.218	169
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	9.00	8.97	100.69%	1.02	1.55	0.084	0.133	0.056	0.089	170
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	143	6665	9.00	8.97	100.69%	1.02	1.55	0.115	0.183	0.095	0.152	171
WLAN 6E 802.11ax(80M) U-NII-8	Back Surface	2	183	6865	9.00	8.97	100.69%	1.02	1.55	0.175	0.279	0.146	0.232	172

PULSE

Ant1

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				Plot page
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Top Edge	2	47	6185	9.00	8.92	101.86%	1.02	1.55	0.153	0.246	0.125	0.201	173
	Top Edge	2	79	6345	9.00	8.92	101.86%	1.02	1.55	0.177	0.285	0.161	0.259	174
WLAN 6E 802.11ax(160M) U-NII-6	Top Edge	2	111	6505	9.00	8.92	101.86%	1.02	1.55	0.193	0.311	0.169	0.272	175
WLAN 6E 802.11ax(160M) U-NII-7	Top Edge	2	143	6665	9.00	8.92	101.86%	1.02	1.55	0.214	0.345	0.202	0.325	176
WLAN 6E 802.11ax(160M) U-NII-8	Top Edge	2	207	6985	9.00	8.92	101.86%	1.02	1.55	0.218	0.351	0.200	0.322	177

Ant2

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				Plot page
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	47	6185	9.00	8.97	100.69%	1.02	1.55	0.161	0.256	0.148	0.236	178
	Back Surface	2	79	6345	9.00	8.97	100.69%	1.02	1.55	0.184	0.293	0.152	0.242	179
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	9.00	8.97	100.69%	1.02	1.55	0.080	0.127	0.063	0.099	180
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	143	6665	9.00	8.97	100.69%	1.02	1.55	0.100	0.159	0.091	0.145	181
WLAN 6E 802.11ax(160M) U-NII-8	Back Surface	2	183	6865	9.00	8.97	100.69%	1.02	1.55	0.188	0.299	0.159	0.253	182

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Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P_2(\text{mW})}{P_1(\text{mW})} = 10^{\left(\frac{P_2 - P_1}{10}\right)} (\text{dBm})$$

Reported SAR = measured SAR * (scaling)

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

2.4 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
WLAN 2.4GHz Main + BT Aux	Yes
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + BT Aux	Yes
WLAN 5GHz Aux + BT Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes
WLAN 6E Main + BT Aux	Yes
WLAN 6E Aux + BT Aux	Yes
WLAN 6E Main + WLAN 6E Aux	Yes
WLAN 6E Main + WLAN 6E Aux + BT Aux	Yes

Note:

1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
2. For 2.4/5/6GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with (or less than) that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.

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3.1 SPLSR evaluation and analysis

Per KDB447498, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

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

The ratio is determined by $(SAR1 + SAR2)^{1.5}/R_i$, 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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Simultaneous Transmission Combination

High-Tek

		Reported SAR						Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9	Scenario 10
Exposure Position		1	2	3	4	5	6	7	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	5GHz WLAN Main	5GHz WLAN Aux									
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
Bottom Surface	0	0.425	0.194	0.957	0.419	0.086	0.499	0.248	0.511	0.519	1.043	0.555	1.376	1.462	0.585	0.334	0.747
Back Surface	0	0.870	0.785	0.614	0.779	0.754	0.789	0.641	1.624	1.655	1.368	1.533	1.393	2.147	1.543	1.395	1.430
Top Edge	0	0.156	0.229	0.476	0.323	0.169	0.004	0.415	0.325	0.385	0.645	0.492	0.799	0.968	0.173	0.584	0.419
Left Edge	0	0.024	-	0.020	-	-	0.006	-	0.024	0.024	0.020	0.009	0.020	0.020	0.006	0.006	0.006
Right Edge	0	-	0.093	-	0.018	0.083	-	0.030	0.083	0.093	0.083	0.101	0.016	0.101	0.083	0.113	0.030

Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.870	9.76	-8.70	-0.49	-	-	-	-
	Bluetooth Aux	0.754	9.78	11.08	-0.43	1.624	197.80	0.010	SPLSR $\leq$ 0.04, Not required



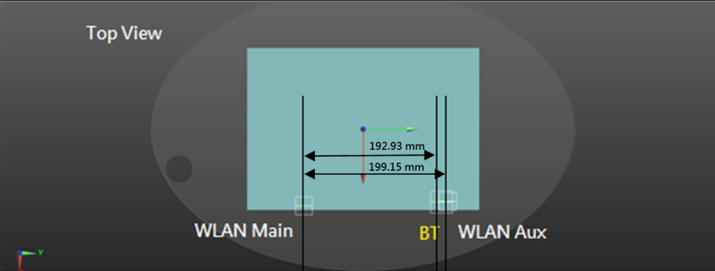
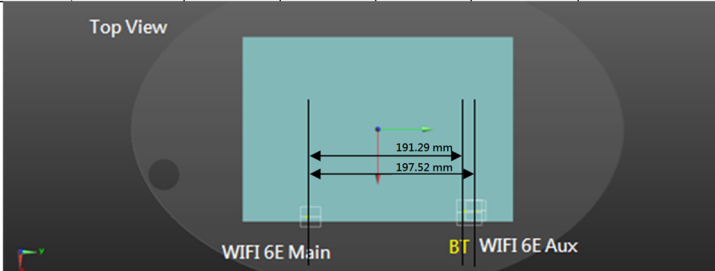
Scenario 2:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.870	9.76	-8.70	-0.49	-	-	-	-
	WLAN 2.4G Aux	0.785	9.90	11.18	-0.42	1.655	198.81	0.011	SPLSR $\leq$ 0.04, Not required



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Scenario 6:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	0.614	10.48	-8.20	-0.48	-	-	-	-
	WLAN 5G Aux	0.779	9.72	11.70	-0.42	2.147	199.15	0.016	SPLSR $\leq$ 0.04, Not required
	Bluetooth Aux	0.754	9.78	11.08	-0.43	2.147	192.93	0.016	SPLSR $\leq$ 0.04, Not required
Top View 									
Scenario 10:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 6E Main	0.789	10.38	-8.04	-0.45	-	-	-	-
	WLAN 6E Aux	0.641	9.70	11.70	-0.42	2.184	199.15	0.016	SPLSR $\leq$ 0.04, Not required
	Bluetooth Aux	0.754	9.78	11.08	-0.43	2.184	192.93	0.017	SPLSR $\leq$ 0.04, Not required
Top View 									

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PULSE

Exposure Position		Reported SAR							Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8	Scenario 9	Scenario 10
		1	2	3	4	5	6	7	1+5	1+2	3+5	4+5	3+4	3+4+5	5+6	5+7	6+7	5+6+7
		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	5GHz WLAN Main	5GHz WLAN Aux	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	0.406	0.171	0.806	0.468	0.088	0.384	0.168	0.494	0.577	0.894	0.556	1.274	1.362	0.472	0.356	0.552	0.640
Back Surface	0	0.910	0.733	0.589	0.643	0.730	0.539	0.548	1.640	1.643	1.289	1.373	1.212	1.942	1.269	1.278	1.087	1.817
Top Edge	0	0.152	0.147	0.382	0.168	0.154	0.719	0.309	0.306	0.299	0.616	0.322	0.630	0.684	0.873	0.463	1.028	1.182
Left Edge	0	0.079	-	0.015	-	-	0.008	-	0.079	0.079	0.615	0.000	0.615	0.615	0.008	0.000	0.008	0.008
Right Edge	0	-	0.084	-	0.031	0.073	-	0.015	0.073	0.084	0.673	0.104	0.631	0.104	0.073	0.088	0.015	0.088

Scenario 1:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.910	9.78	-9.02	-0.46	-	-	-	-
	Bluetooth Aux	0.730	9.78	11.08	-0.44	1.640	201.00	0.010	SPLSR $\leq$ 0.04, Not required

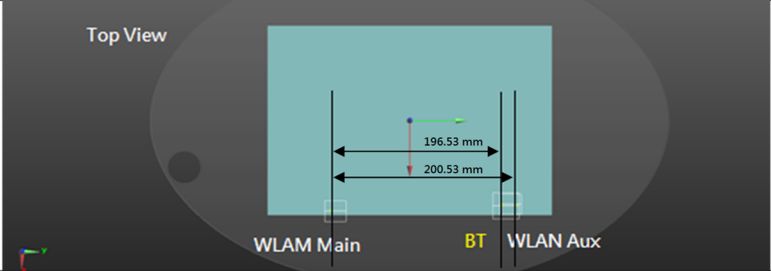
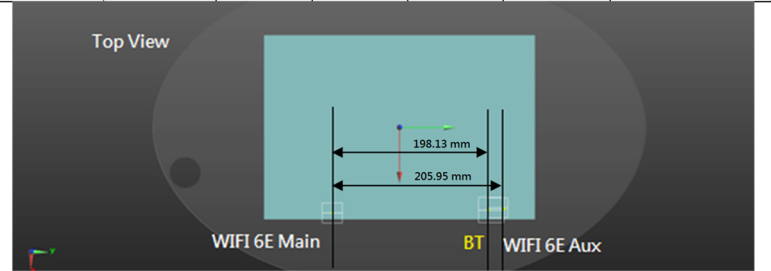
Scenario 2:

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.910	9.78	-9.02	-0.46	-	-	-	-
	WLAN 2.4G Aux	0.733	9.80	10.82	-0.42	1.643	198.40	0.011	SPLSR $\leq$ 0.04, Not required

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Scenario 6:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	0.569	10.50	-8.56	-0.45	-	-	-	-
	WLAN 5G Aux	0.643	9.78	11.48	-0.42	1.942	200.53	0.013	SPLSR $\leq$ 0.04, Not required
	Bluetooth Aux	0.730	9.78	11.08	-0.44	1.942	196.53	0.014	SPLSR $\leq$ 0.04, Not required
									
Scenario 10:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 6E Main	0.539	10.15	-8.73	-0.47	-	-	-	-
	WLAN 6E Aux	0.548	9.68	11.86	-0.44	1.817	204.36	0.012	SPLSR $\leq$ 0.04, Not required
	Bluetooth Aux	0.730	9.78	11.08	-0.44	1.817	196.53	0.012	SPLSR $\leq$ 0.04, 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	7642	Mar.02,2022	Mar.01,2023
			7466	Jan.26,2022	Jan.25,2023
		EUmmWV4	9579	Oct.06,2021	Oct.05,2022
SPEAG	System Validation Dipole	D2450V2	835	Jun.22,2021	Jun.21,2022
		D5GHzV2	1023	Jan.27,2022	Jan.26,2023
		D6.5GHzV2	1006	Aug.26,2021	Aug.25,2022
		D7GHzV2	1007	Aug.26,2021	Aug.25,2022
		5G-Veri10	1021	Jan.24,2022	Jan.23,2023
SPEAG	Data acquisition Electronics	DAE4	679	Jun.01,2021	May.31,2022
			558	Nov.23,2021	Nov.22,2022
SPEAG	Software	DASY 52 V52.10.4(1527)	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 V16.0.2.136	N/A	Calibration not required	Calibration not required
SPEAG	Software	DASY 6 mmWave V2.4.2.62	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
		mmWave			
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.28,2022	Feb.27,2023
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16,2021	Aug.15,2022
		778D	MY48220468	Aug.16,2021	Aug.15,2022
Agilent	MXG Analog Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec.08,2021	Dec.07,2022
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
R&S	Power Meter	NRX	102034	Dec.28,2021	Dec.27,2022
R&S	Power Sensor	NRP18S	101974	Oct.12.2021	Oct.11.2022
R&S	Power Sensor	NRP18S	109066	Oct.12.2021	Oct.11.2022
TECPEL	Digital thermometer	DTM-303A	TP130075	Oct.28.2021	Oct.27.2022

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5. Measurements

Date: 2022/5/4

Report No. : TESA2204000049EN

WLAN 802.11b_Body_Bottom Surface_CH 1_0mm_Main

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.017

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.782 \text{ S/m}$; $\epsilon_r = 39.458$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C ; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2412 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

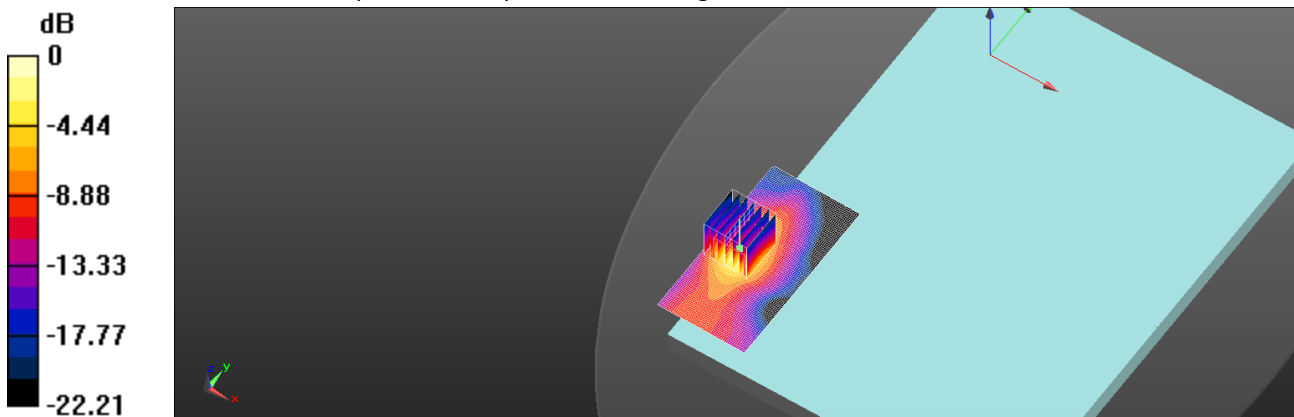
Maximum value of SAR (interpolated) = 0.553 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.617 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.981 W/kg
SAR(1 g) = 0.414 W/kg ; SAR(10 g) = 0.182 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.2%

Maximum value of SAR (measured) = 0.673 W/kg

 $0 \text{ dB} = 0.673 \text{ W/kg} = -1.72 \text{ dBW/kg}$

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Date: 2022/5/5

Report No. : TESA2204000049EN
WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_0mm_Main

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.687 \text{ S/m}$; $\epsilon_r = 36.073$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

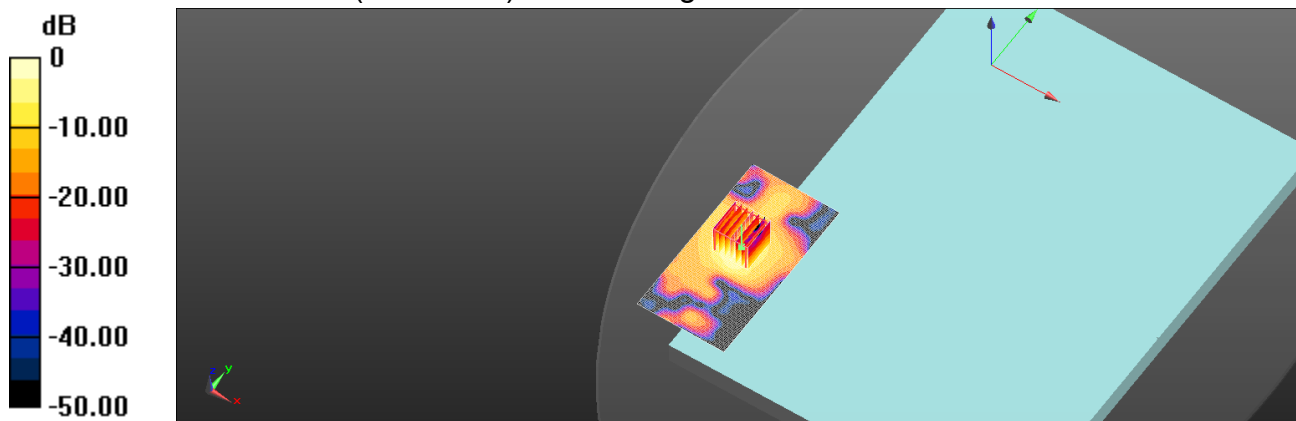
Maximum value of SAR (interpolated) = 0.887 W/kg
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.294 V/m ; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.96 W/kg
SAR(1 g) = 0.533 W/kg ; SAR(10 g) = 0.158 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 60%

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

 $0 \text{ dB} = 1.10 \text{ W/kg} = 0.41 \text{ dBW/kg}$

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 35.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.910 W/kg

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

Reference Value = 4.037 V/m; Power Drift = 0.09 dB

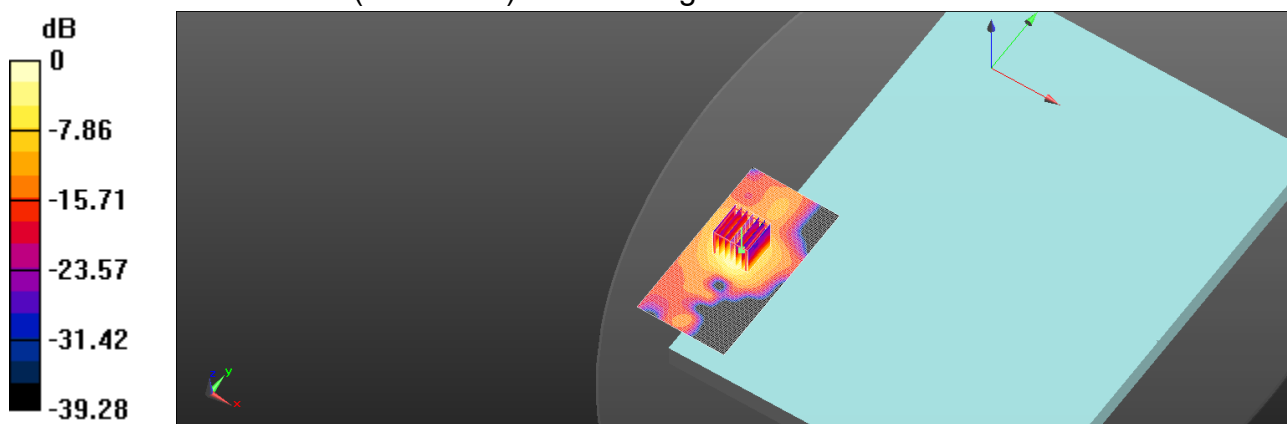
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.162 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2022/5/6

Report No. :TESA2204000049EN
WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.077 \text{ S/m}$; $\epsilon_r = 35.594$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.59 W/kg

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

Reference Value = 5.257 V/m; Power Drift = 0.07 dB

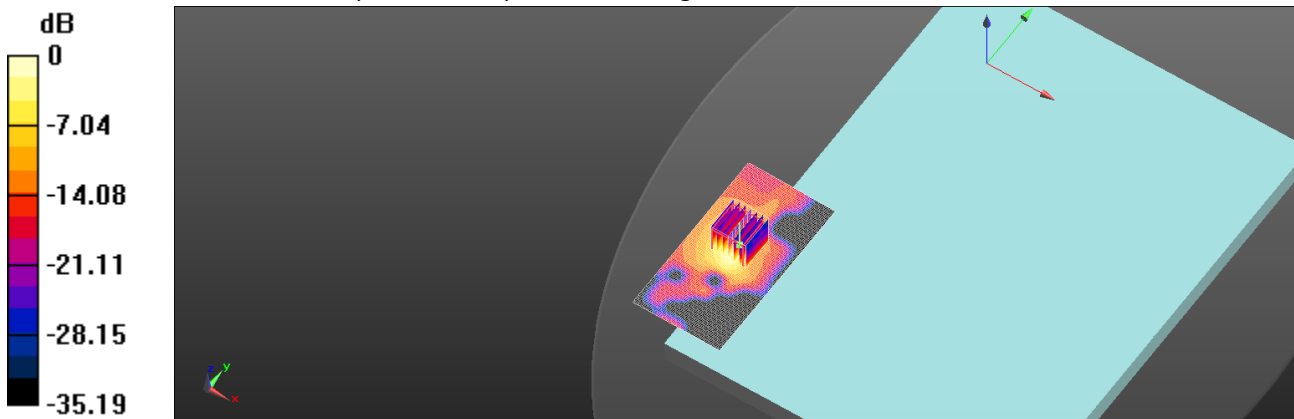
Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.741 W/kg; SAR(10 g) = 0.211 W/kg

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

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

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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Date: 2022/5/7

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.311$ S/m; $\epsilon_r = 35.039$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 2.30 W/kg

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

Reference Value = 6.263 V/m; Power Drift = 0.02 dB

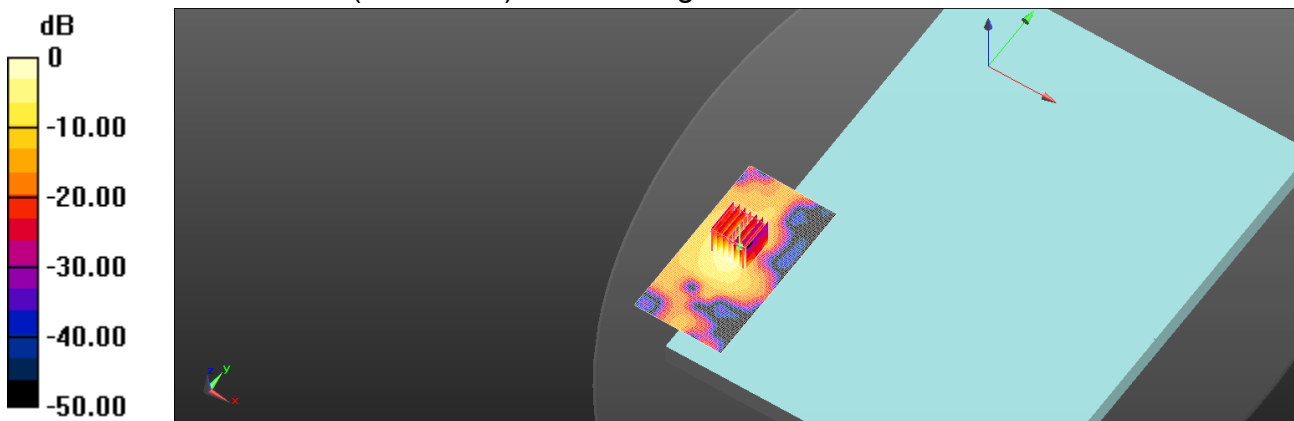
Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 0.933 W/kg; SAR(10 g) = 0.257 W/kg

Smallest distance from peaks to all points 3 dB below = 4.5 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 1.96 W/kg



0 dB = 1.96 W/kg = 2.92 dBW/kg

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Date: 2022/5/4

Report No. : TESA2204000049EN

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Aux

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.828 \text{ S/m}$; $\epsilon_r = 39.354$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.281 W/kg

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

Reference Value = 2.594 V/m; Power Drift = 0.02 dB

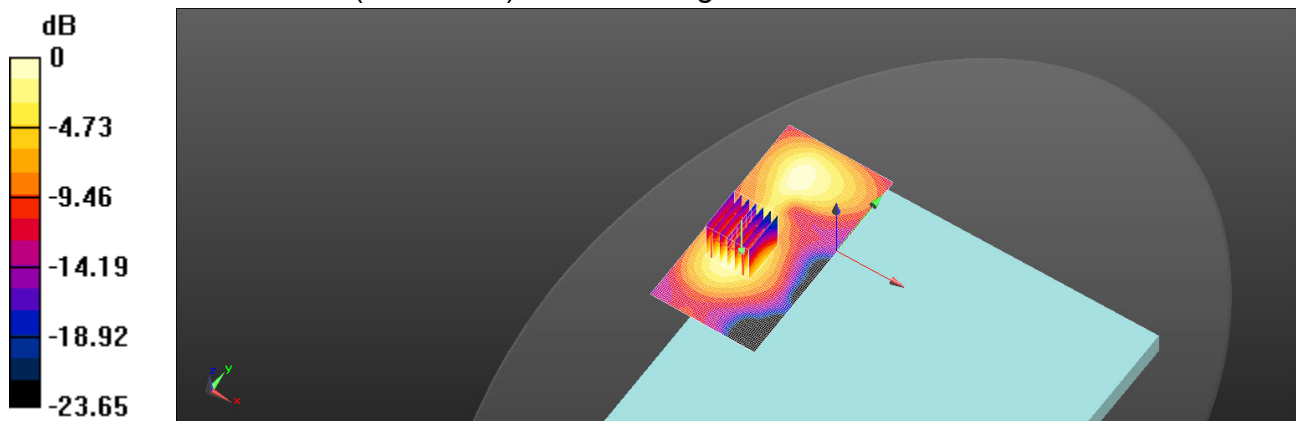
Peak SAR (extrapolated) = 0.362 W/kg

SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.097 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.274 W/kg



0 dB = 0.274 W/kg = -5.62 dBW/kg

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Date: 2022/5/4

Report No. : TESA2204000049EN**Bluetooth(GFSK)_Body_Bottom Surface_CH 78_0mm_Aux**

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.335

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 39.32$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2480 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0609 W/kg

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

Reference Value = 2.014 V/m; Power Drift = 0.18 dB

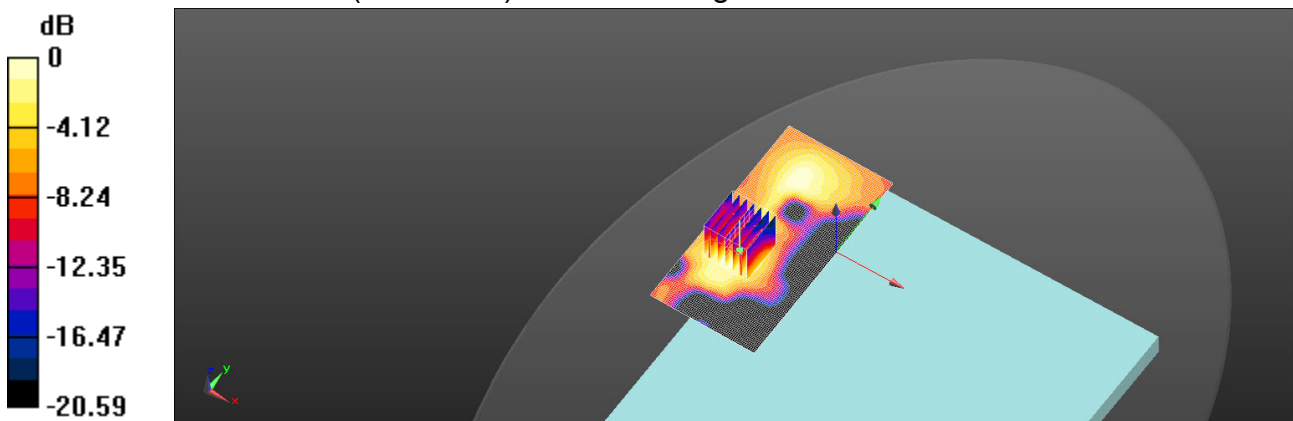
Peak SAR (extrapolated) = 0.0820 W/kg

SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.022 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.0613 W/kg



0 dB = 0.0613 W/kg = -12.13 dBW/kg

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty cycle= 1:1.031

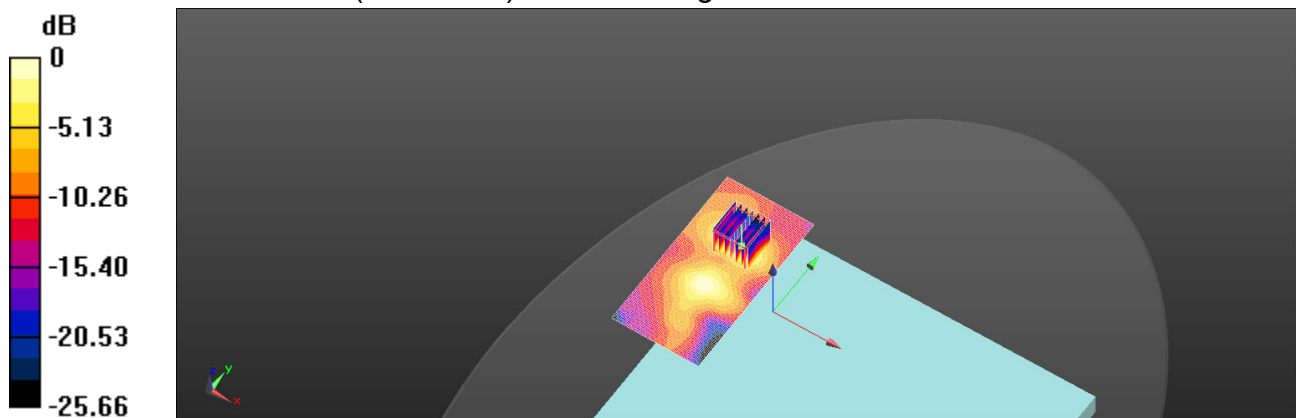
Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.642 \text{ S/m}$; $\epsilon_r = 36.159$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5210 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$ Maximum value of SAR (interpolated) = 0.640 W/kg **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$ Reference Value = 2.378 V/m ; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.08 W/kg **SAR(1 g) = 0.335 W/kg ; SAR(10 g) = 0.116 W/kg** Smallest distance from peaks to all points 3 dB below = 6.8 mm Ratio of SAR at M2 to SAR at M1 = 59.3% Maximum value of SAR (measured) = 0.620 W/kg  $0 \text{ dB} = 0.620 \text{ W/kg} = -2.08 \text{ dBW/kg}$

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 35.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.680 W/kg

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

Reference Value = 2.513 V/m; Power Drift = 0.07 dB

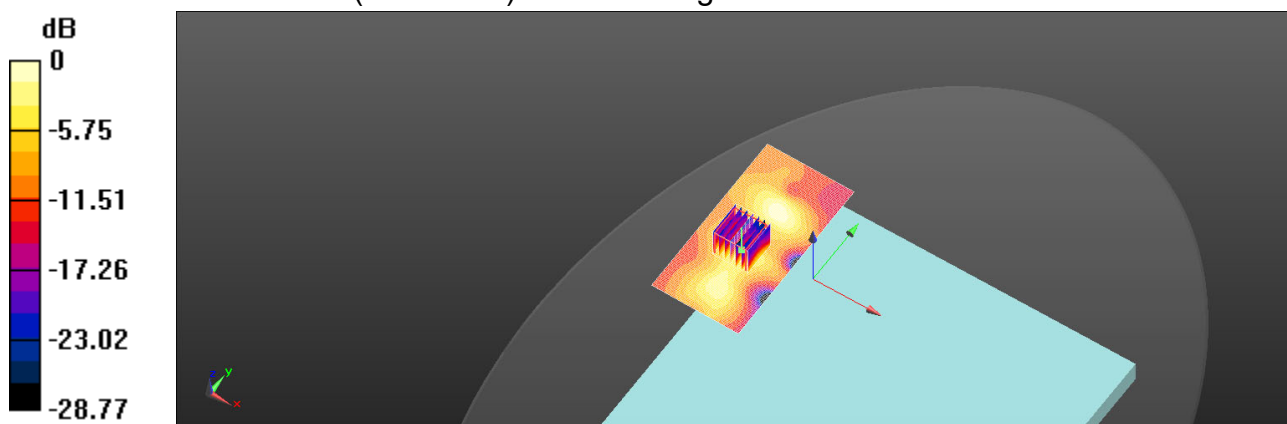
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.111 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.4%

Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg = -1.77 dBW/kg

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Date: 2022/5/6

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.215$ S/m; $\epsilon_r = 35.334$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5690 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.651 W/kg

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

Reference Value = 2.638 V/m; Power Drift = 0.11 dB

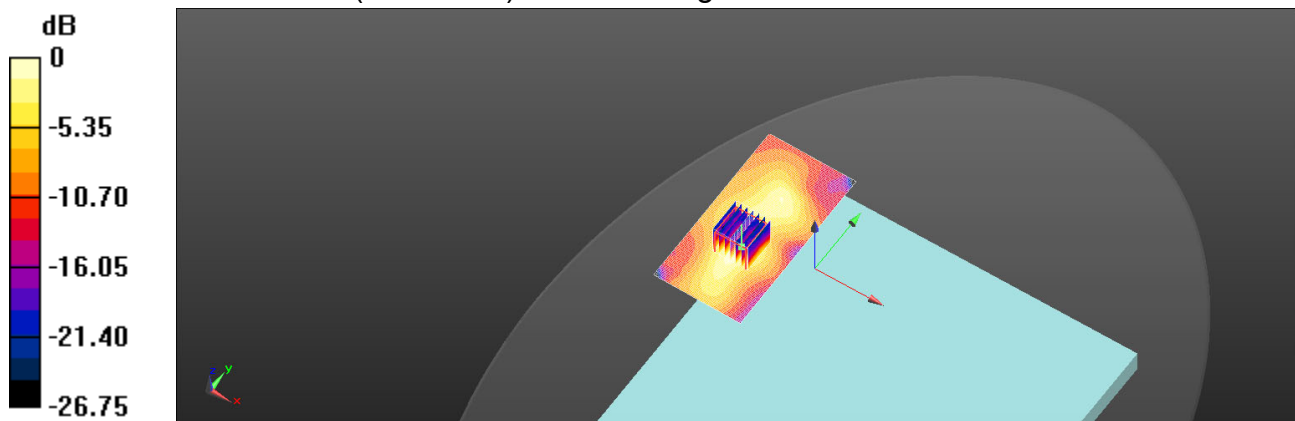
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.137 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.711 W/kg



0 dB = 0.711 W/kg = -1.48 dBW/kg

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Date: 2022/5/7

Report No. : TESA2204000049EN
WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Aux

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.311 \text{ S/m}$; $\epsilon_r = 35.039$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.727 W/kg

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

Reference Value = 2.989 V/m; Power Drift = 0.06 dB

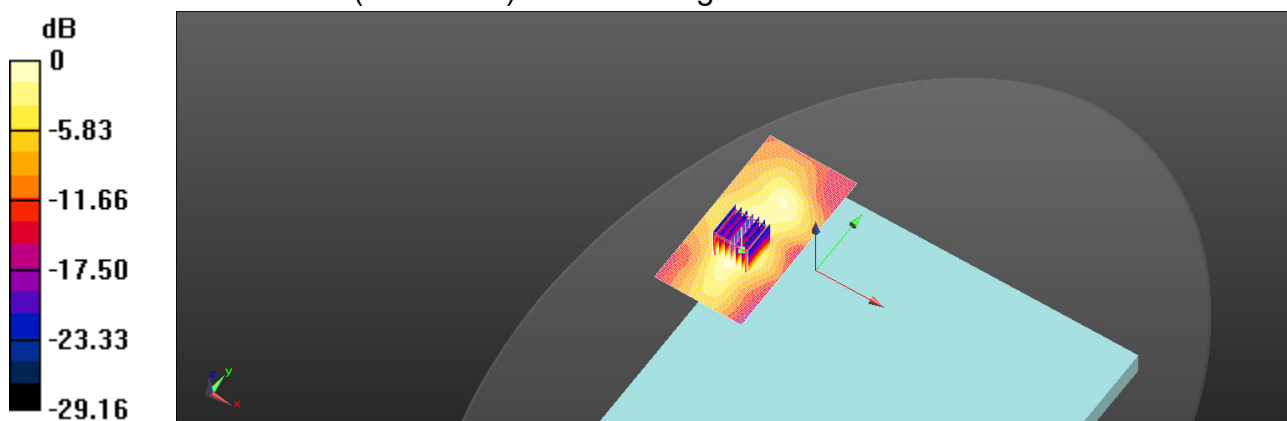
Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.147 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.776 W/kg



0 dB = 0.776 W/kg = -1.10 dBW/kg

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Date: 2022/5/4

Report No. : TESA2204000049EN**WLAN 802.11b_Body_Back Surface_CH 6_0mm_Main**

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.017

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.804$ S/m; $\epsilon_r = 39.394$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2437 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.39 W/kg

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

Reference Value = 6.724 V/m; Power Drift = 0.07 dB

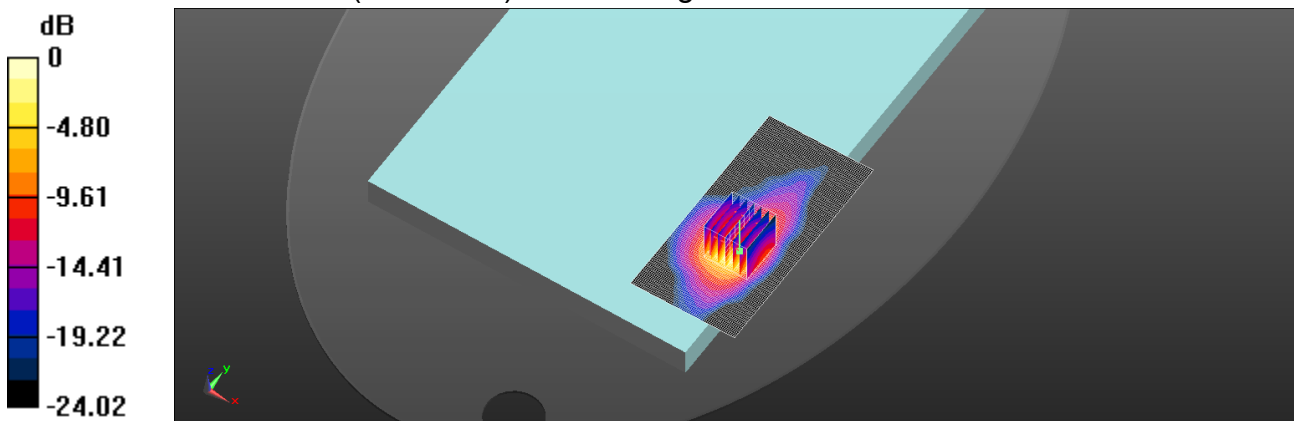
Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.374 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Main**

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.687$ S/m; $\epsilon_r = 36.073$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.006 V/m; Power Drift = 0.14 dB

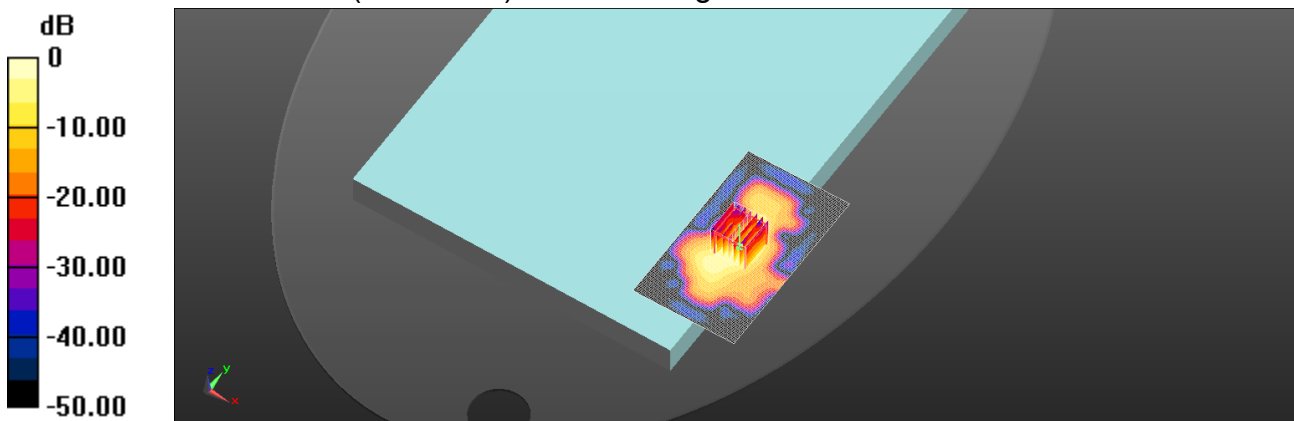
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.107 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 60%

Maximum value of SAR (measured) = 0.844 W/kg



0 dB = 0.844 W/kg = -0.74 dBW/kg

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Main**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 35.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.669 W/kg

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

Reference Value = 2.811 V/m; Power Drift = 0.16 dB

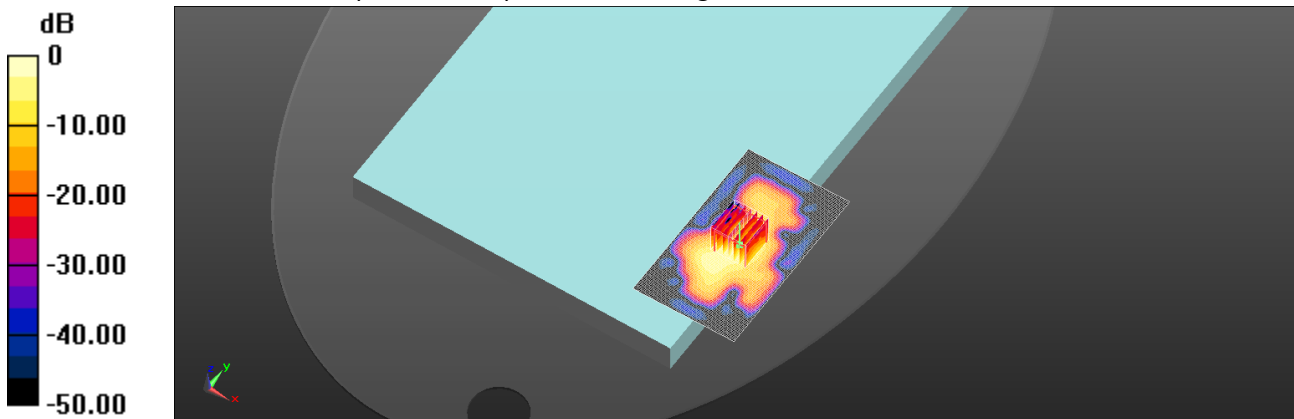
Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.379 W/kg; SAR(10 g) = 0.099 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

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



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

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Date: 2022/5/6

Report No. : TESA2204000049EN**WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Main**

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.077$ S/m; $\epsilon_r = 35.594$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 5.226 V/m; Power Drift = 0.02 dB

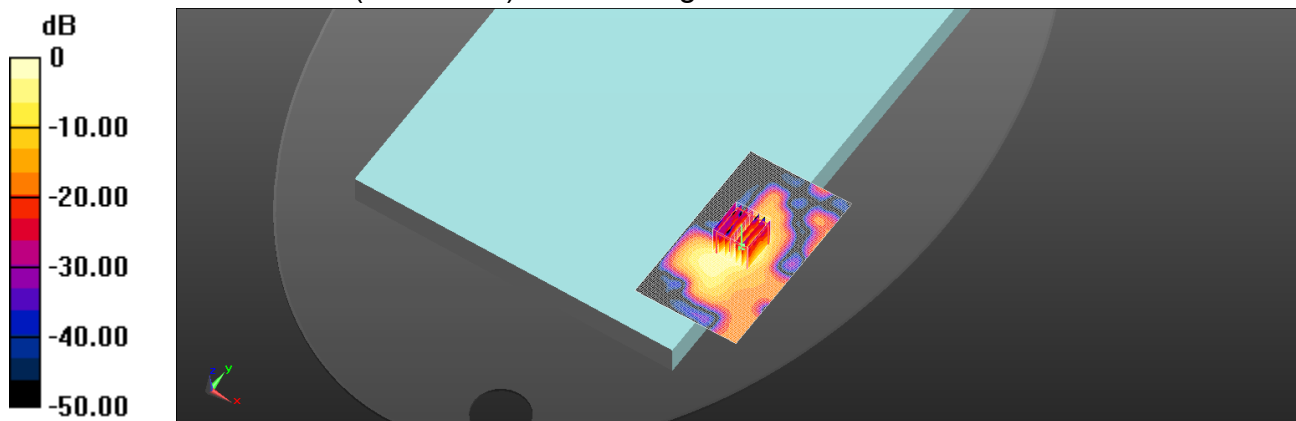
Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.139 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

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Date: 2022/5/7

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Main**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.311$ S/m; $\epsilon_r = 35.039$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.12 W/kg

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

Reference Value = 4.769 V/m; Power Drift = 0.15 dB

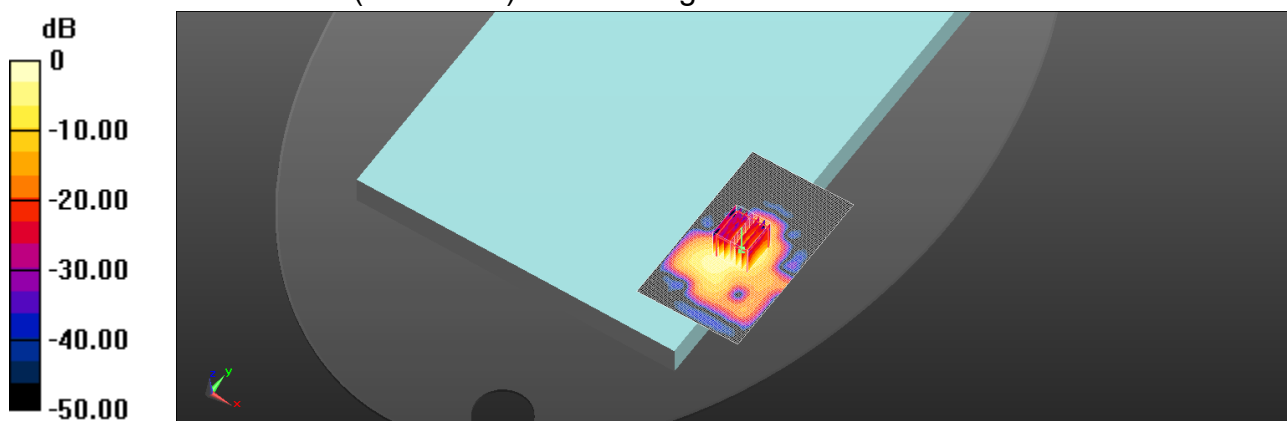
Peak SAR (extrapolated) = 2.50 W/kg

SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.148 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

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



0 dB = 1.31 W/kg = 1.17 dBW/kg

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Date: 2022/5/4

Report No. : TESA2204000049EN**WLAN 802.11b_Body_Back Surface_CH 11_0mm_Aux**

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 39.354$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 1.41 W/kg

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

Reference Value = 5.733 V/m; Power Drift = 0.03 dB

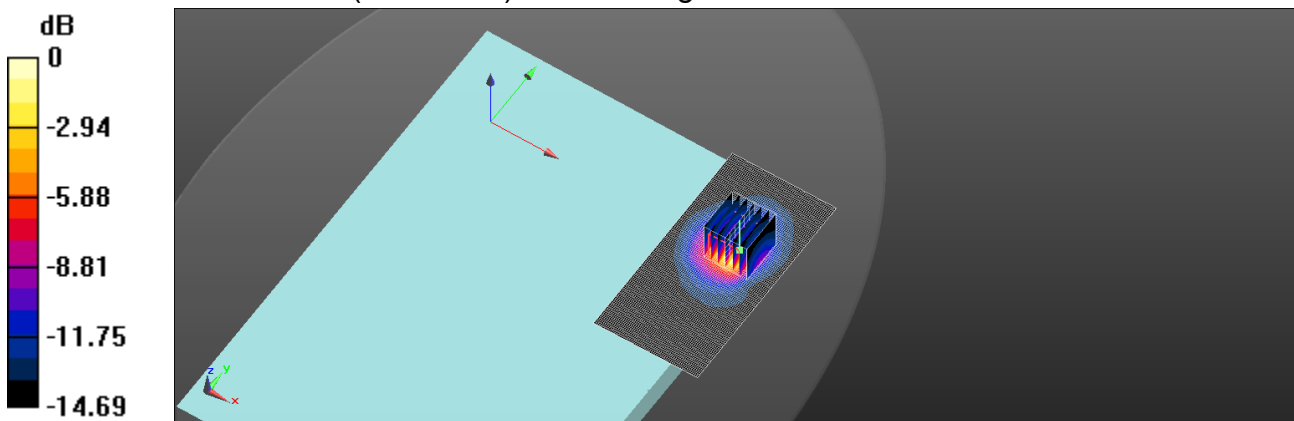
Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.340 W/kg

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

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



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

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Date: 2022/5/4

Report No. : TESA2204000049EN**Bluetooth(GFSK)_Body_Back Surface_CH 78_0mm_Aux**

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.335

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 39.32$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2480 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.611 W/kg

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

Reference Value = 2.224 V/m; Power Drift = 0.13 dB

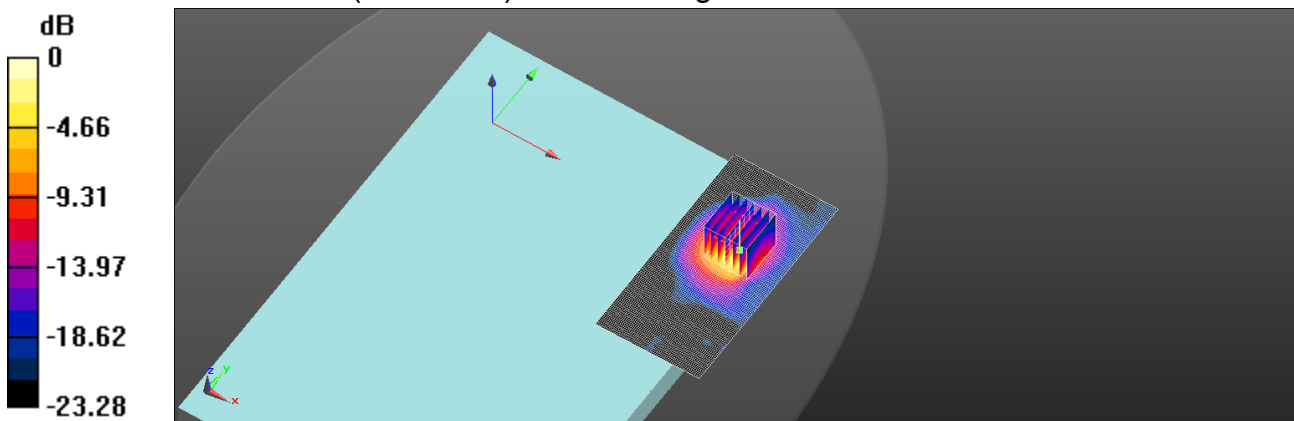
Peak SAR (extrapolated) = 0.781 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.161 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 0.568 W/kg



0 dB = 0.568 W/kg = -2.46 dBW/kg

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.687$ S/m; $\epsilon_r = 36.073$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

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

Reference Value = 4.652 V/m; Power Drift = 0.08 dB

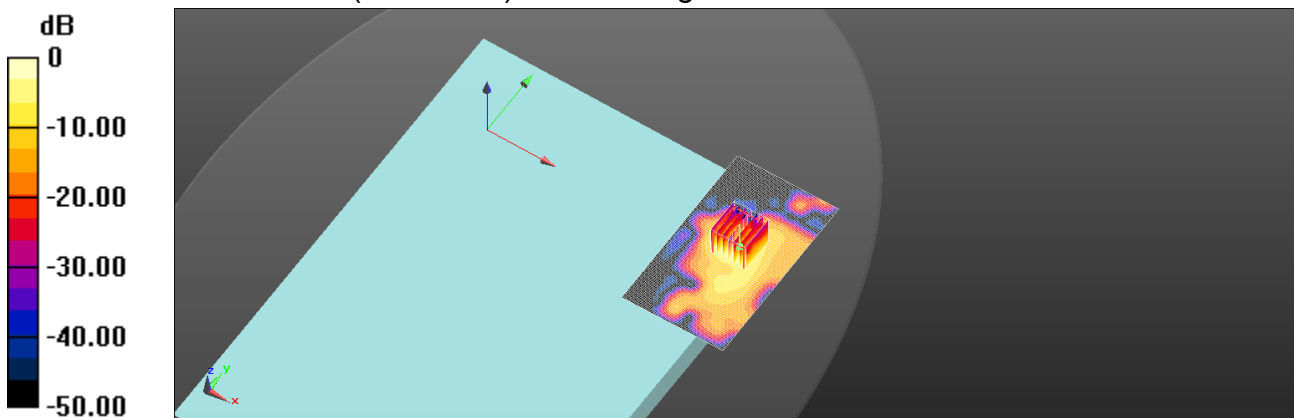
Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.656 W/kg; SAR(10 g) = 0.183 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 59.7%

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



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

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 35.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 4.189 V/m; Power Drift = 0.08 dB

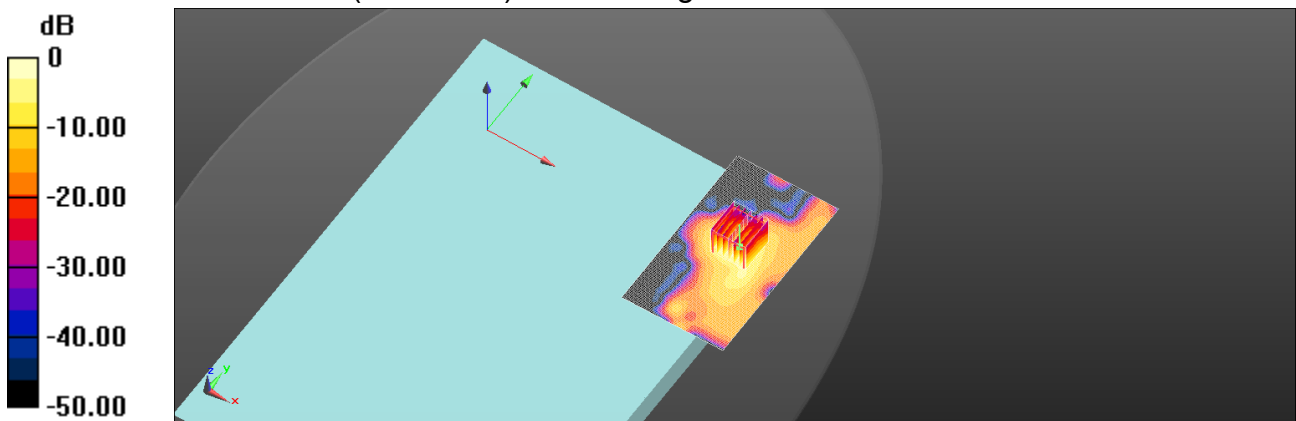
Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.175 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 59.9%

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

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Date: 2022/5/6

Report No. : TESA2204000049EN**WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.077$ S/m; $\epsilon_r = 35.594$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

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

Reference Value = 5.105 V/m; Power Drift = 0.08 dB

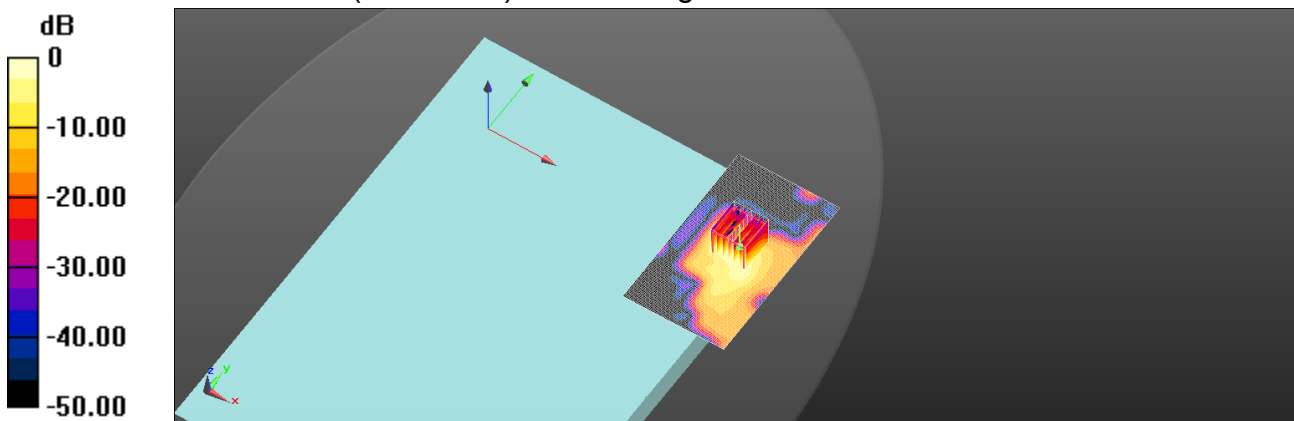
Peak SAR (extrapolated) = 3.00 W/kg

SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

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

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

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Date: 2022/5/7

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Aux**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.311$ S/m; $\epsilon_r = 35.039$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.57 W/kg

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

Reference Value = 4.833 V/m; Power Drift = 0.12 dB

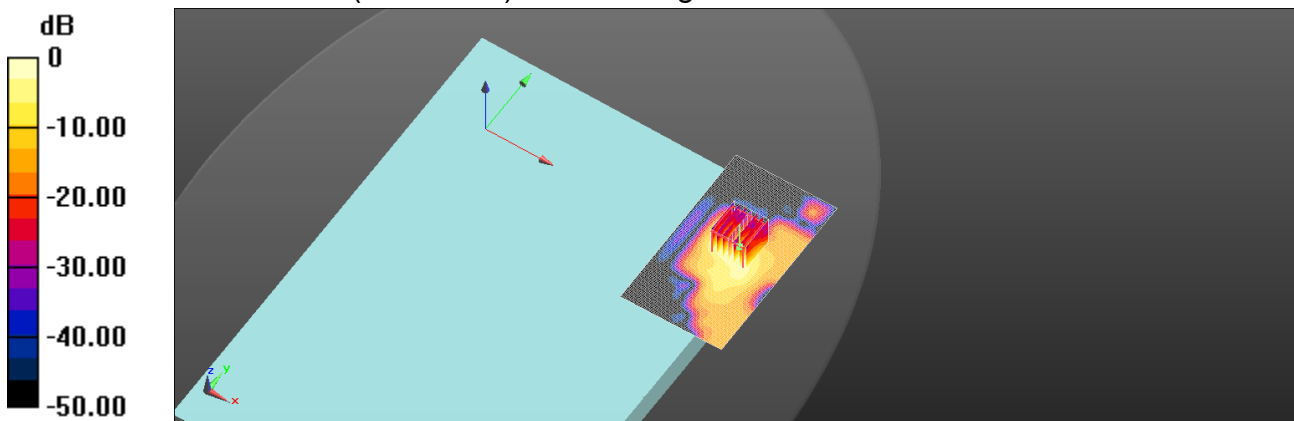
Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.165 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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Date: 2022/5/4

Report No. : TESA2204000049EN**WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Main**

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.828 \text{ S/m}$; $\epsilon_r = 39.354$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 0.684 W/kg

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

Reference Value = 2.671 V/m; Power Drift = 0.06 dB

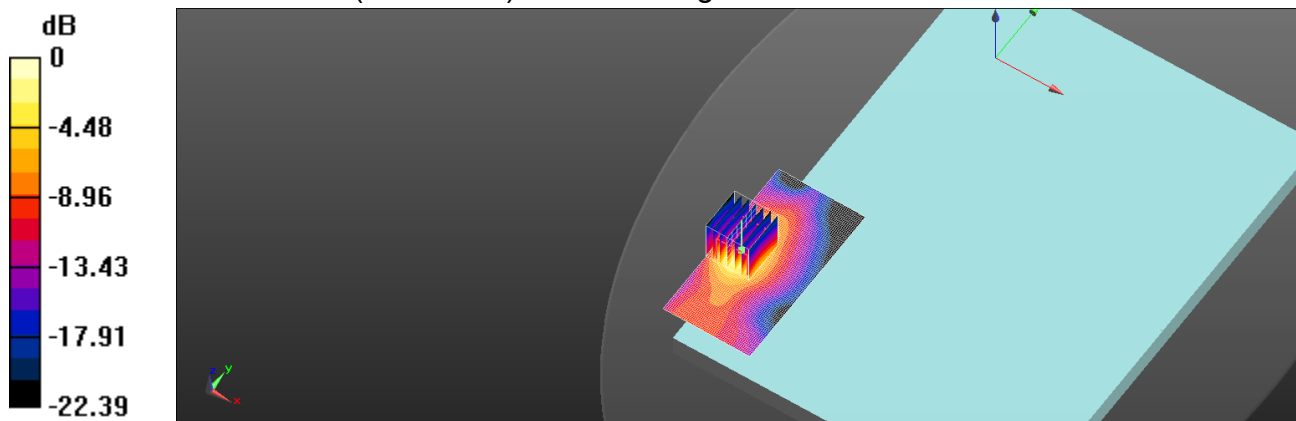
Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.398 W/kg; SAR(10 g) = 0.168 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 39.9%

Maximum value of SAR (measured) = 0.661 W/kg



0 dB = 0.661 W/kg = -1.80 dBW/kg

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_0mm_Main**

Communication System: WLAN 5G; Frequency: 5250 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.687$ S/m; $\epsilon_r = 36.073$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5250 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.700 W/kg

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

Reference Value = 3.274 V/m; Power Drift = 0.15 dB

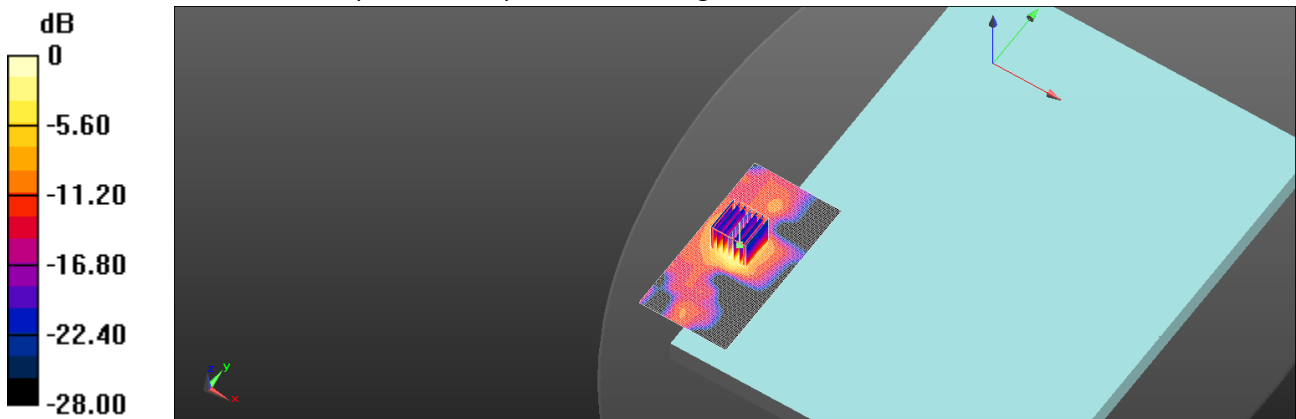
Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.141 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.991 W/kg



0 dB = 0.991 W/kg = -0.04 dBW/kg

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Date: 2022/5/5

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main**

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 35.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69) @ 5290 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.755 W/kg

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

Reference Value = 3.788 V/m; Power Drift = 0.11 dB

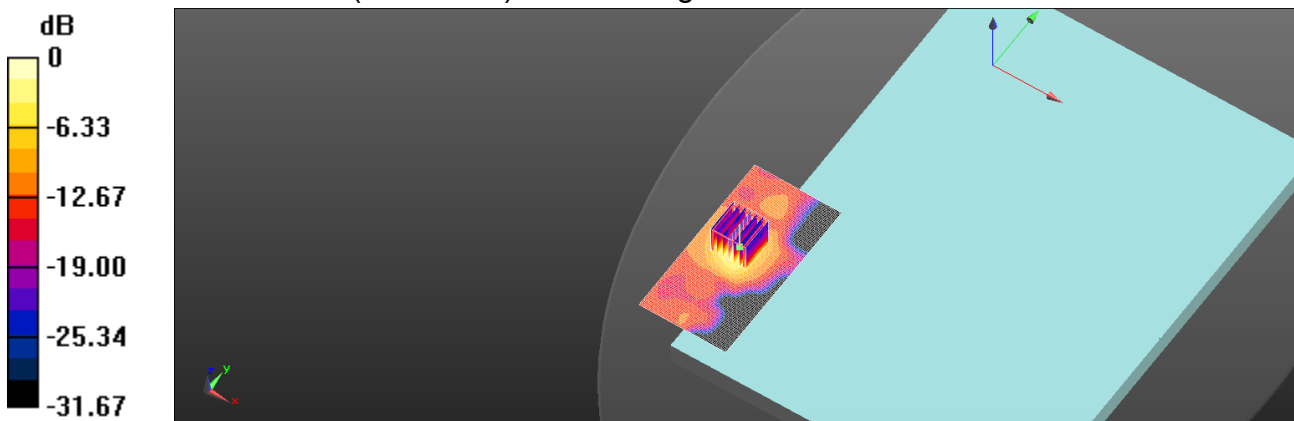
Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.147 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Date: 2022/5/6

Report No. : TESA2204000049EN

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_0mm_Main

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.077 \text{ S/m}$; $\epsilon_r = 35.594$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.05, 5.05, 5.05) @ 5570 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): 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 = 5.272 V/m ; Power Drift = 0.07 dB

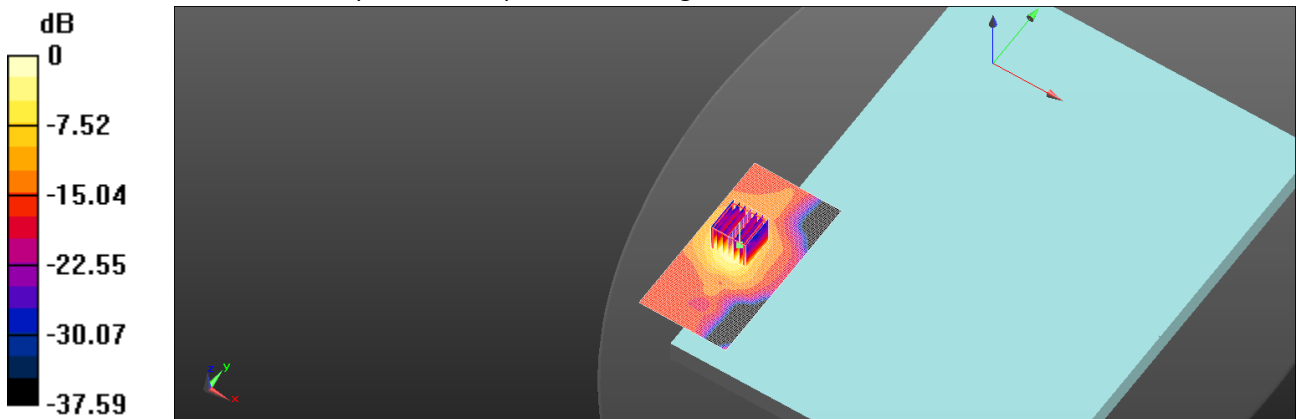
Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 0.660 W/kg ; SAR(10 g) = 0.187 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 1.40 W/kg



$0 \text{ dB} = 1.40 \text{ W/kg} = 1.46 \text{ dBW/kg}$

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Date: 2022/5/7

Report No. : TESA2204000049EN**WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main**

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.311$ S/m; $\epsilon_r = 35.039$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15) @ 5775 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 6.207 V/m; Power Drift = 0.06 dB

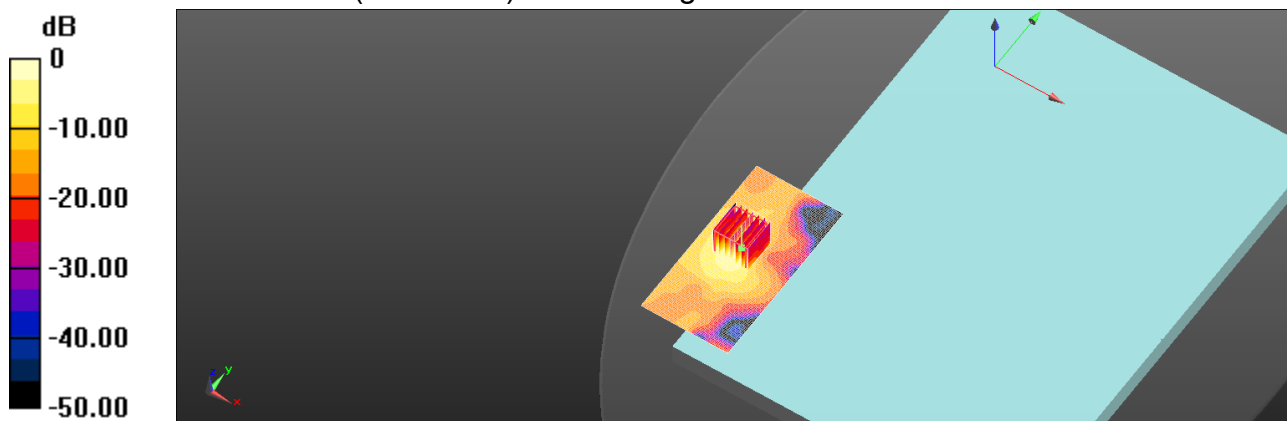
Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 0.778 W/kg; SAR(10 g) = 0.209 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg

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Date: 2022/5/4

Report No. : TESA2204000049EN**WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Aux**

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.017

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 39.354$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12) @ 2462 MHz; Calibrated: 2022/3/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 2021/6/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.261 W/kg

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

Reference Value = 2.511 V/m; Power Drift = 0.17 dB

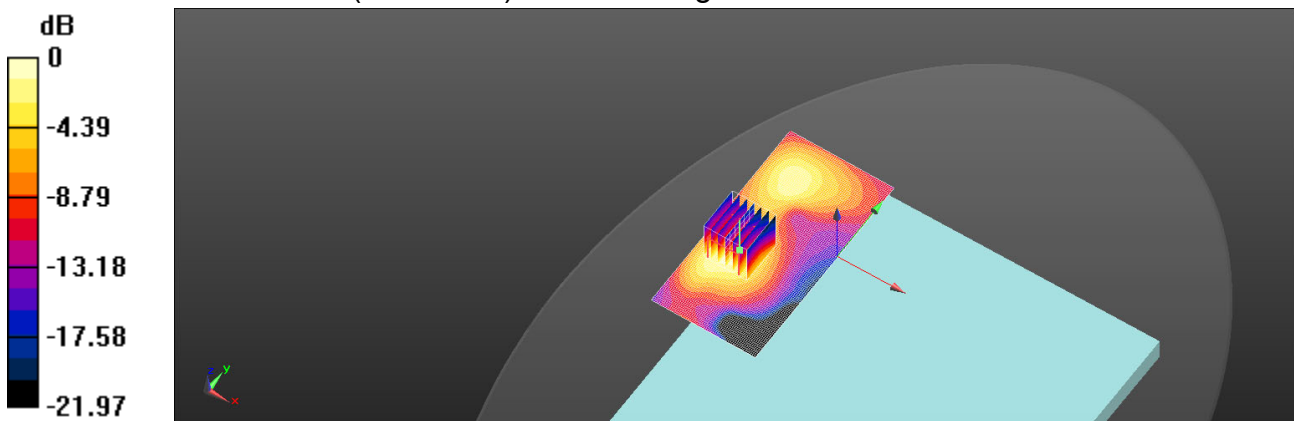
Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.167 W/kg; SAR(10 g) = 0.082 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 0.249 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

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