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RF Exposure report





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

Wireless module installed in Notebook PC **EUT Description**

REALTEK Brand Name RTL8852BE Model No.

Realtek Semiconductor Corp. **Applicant**

No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu,

300, Taiwan

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

FCC ID TX2-RTL8852BE **Date of EUT Receipt** Jan. 02, 2025

Date of Test(s) Jan. 11, 2025 ~ Jan. 15, 2025

Date of Issue Feb. 21, 2025

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

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Ltd. Central RF Lab or testing done by SGS Taiwan Ltd. Central RF Lab in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Ltd. Central RF Lab in writing.

Signed on behalf of SGS

Clerk / Cindy Chou	PM / Tom Chiang	Approved By / John Yeh
Cindy Chou	Tom Chiang	John Teh
		D-(- E-I- 04 000

Date: Feb. 21, 2025

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2501000002ES	00	Initial creation of document	Feb. 10, 2025	Cindy Chou	
TESA2501000002ES	01	Modify comment	Feb. 21, 2025	Cindy Chou	*

Note:

- 1. The mark " * " is the revised version of the report due to comments submitted by the certification.
- Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
 And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB248227D01v02r01

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Description of EUT

EUT Description	Wireless module installed in Notebook PC				
Brand Name	REALTEK				
Model No.	RTL8852BE				
FCC ID	TX2-RTL8852BE				
Host Information:	Product Type: Notebook PC Brand Name: ASUS Model Name: M3607H Family Model Name: D3607H M3607K D3607K All models are electrically identical, different model names are for marketing purpose.				
Duty Cycle	WLAN802.11	Please refer to section 7			
Duty Cycle	Bluetooth	Please refer to section 7			
	802.11 b/g/n/ac/ax	2.4GHz (2400.0 – 2483.5 MHz)			
Supported radios (TX Frequency Range, MHz)	5.2GHz (5150.0 –5350.0 5.6GHz (5470.0 – 5725.0 5.8GHz (5725.0 – 5850.0 5.9GHz (5850.0 – 5895.0				
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)			

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Maximum value

Summary of Maximum SAR Value				
Mode	Highest SAR 1g			
iviode	(W/kg)			
Bluetooth(GFSK)	0.06			
2.4G WLAN	1.15			
5.2G WLAN	0.93			
5.3G WLAN	0.92			
5.6G WLAN	1.15			
5.8G WLAN	1.16			
5.9G WLAN	1.18			

Antenna Information 1.4

Vendor		INPAQ					
Antenna			M	ain			
Part Number			WA-P-LI	E-02-370			
Frequency(MHz)	2400~2483.5	2400~2483.5 5150~5250 5250~5350 5470~5725 5725~5850 5850~5895					
Gain (dBi)	1.83	2.56	2.61	3.20	3.58	3.58	
Antenna		Aux					
Part Number			WA-P-LI	E-01-096			
Frequency(MHz)	2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850	5850~5895	
Gain (dBi)	2.08 2.65 2.73 2.98 3.43 3.48						
Note: Antenna infori	mation is provide	d by the applica	nt.				

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120,	SAR 2		TW3702
	Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.	SAR 6	TW0029	
		SAR 8		
	No. 2, Keji 1st Rd., Guishan	SAR 1	TW0000	
	Township, Taoyuan County, 33383, Taiwan	SAR 4	TW0028	
	No.134, Wu Kung Road, New Taipei Industrial Park,	SAR 3	TM/0007	
	Wuku District, New Taipei City, Taiwan	SAR 7	TW0027	

Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

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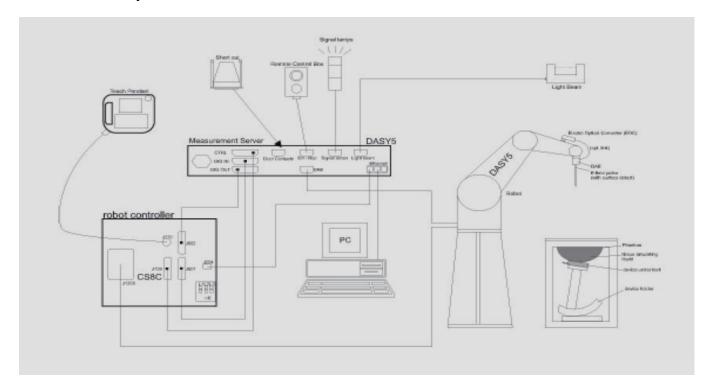


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2.2 SAR System

Block Diagram (DASY5)

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



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EX3DV4 E-Field Probe

CV2DA4 C-I	
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750/5850 MHz Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz
Directivity	± 0.3 dB in HSL (rotation around probe axis)
	± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic	10 μW/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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PHANTOM (FI I)

PHANTOW (E	LI)
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	2 ± 0.2 mm
Thickness	
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER

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.	

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

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

3.2 Tissue Simulant Liquid measurement

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

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

3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Limit	Measurement Date
2402	39.296	1.758	39.266	1.757	-0.08%	-0.06%	± 5%	
2412	39.276	1.767	39.253	1.820	-0.06%	3.00%	± 5%	
2437	39.226	1.789	39.233	1.832	0.02%	2.40%	± 5%	
2441	39.218	1.792	39.192	1.833	-0.07%	2.29%	± 5%	
2442	39.216	1.793	39.162	1.843	-0.14%	2.79%	± 5%	Jan. 14, 2025
2450	39.200	1.800	39.137	1.846	-0.16%	2.56%	± 5%	
2462	39.184	1.813	39.027	1.852	-0.40%	2.15%	± 5%	
2472	39.171	1.823	39.025	1.862	-0.37%	2.14%	± 5%	
2480	39.160	1.832	39.019	1.862	-0.36%	1.64%	± 5%	
5190	36.010	4.650	35.998	4.744	-0.03%	2.02%	± 5%	
5210	35.990	4.670	35.871	4.762	-0.33%	1.97%	± 5%	
5230	35.970	4.690	35.854	4.791	-0.32%	2.15%	± 5%	
5250	35.950	4.710	35.813	4.825	-0.38%	2.44%	± 5%	
5290	35.910	4.750	35.787	4.856	-0.34%	2.23%	± 5%	
5530	35.605	4.997	35.627	5.120	0.06%	2.46%	± 5%	
5600	35.500	5.070	35.416	5.188	-0.24%	2.33%	± 5%	Jan. 15, 2025
5610	35.490	5.080	35.388	5.193	-0.29%	2.22%	± 5%	
5690	35.410	5.160	35.375	5.293	-0.10%	2.58%	± 5%	
5750	35.350	5.220	35.353	5.348	0.01%	2.45%	± 5%	
5775	35.325	5.245	35.258	5.380	-0.19%	2.57%	± 5%	
5850	35.250	5.323	35.114	5.457	-0.39%	2.53%	± 5%	
5855	35.245	5.328	35.114	5.475	-0.37%	2.76%	± 5%	

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The composition of the tissue simulating liquid:

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

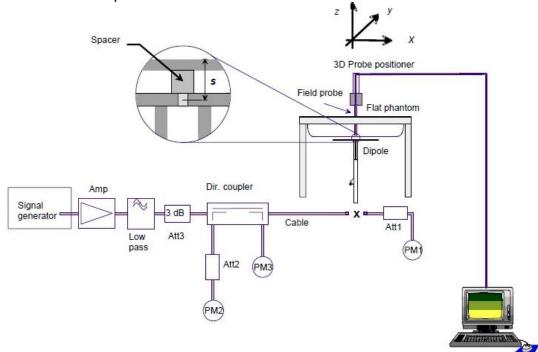
Broad-band head tissue simulating	SPEAG Product	Frequency range (MHz)	Main Ingredients
liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

3.5 System check

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

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

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



The block diagram of system check

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System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.7	12.9	51.6	-2.09	± 10%	Jan.14,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	7.87	78.7	-2.72	± 10%	Jan.15,2025
D5GHzV2	1349	5600	82.4	8.25	82.5	0.12	± 10%	Jan.15,2025
D5GHzV2	1349	5750	80.8	7.67	76.7	-5.07	± 10%	Jan.15,2025
D5GHzV2	1349	5850	79.9	8.36	83.6	4.63	± 10%	Jan.15,2025

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4 TEST CONFIGURATIONS

4.1 Test Environment

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

4.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is ≥ 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- WLAN 2.4GHz: 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- WLAN 2.4GHz: 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- WLAN 5GHz: Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is

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adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.

• WLAN 5GHz: Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

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4.3 Test position

Laptop mode SAR test position (0mm)

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

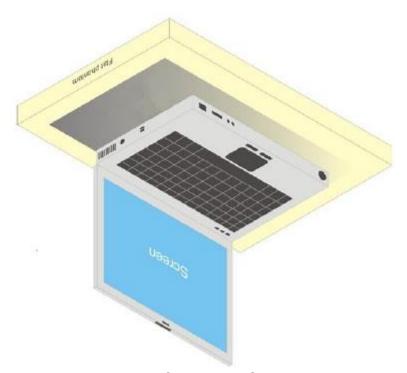


Illustration for Laptop Setup

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4.4 Test limit

§ 2.1093(d)(1)

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

Radiofrequency radiation exposure limits.

§ 1.1310(a)

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

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

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

Note to paragraphs (a) through (c):

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

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

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

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

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

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)					
(i) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	*(100)	≤6					
3.0-30	1842/f	4.89/f	*(900/f ²)	<6					
30-300	61.4	0.163	1.0	<6					
300-1,500			f/300	<6					
1,500- 100,000			5	<6					
	(ii) Limits for Genera	l Population/Uncontrolle	d 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					
300-1,500			f/1500	<30					
1,500- 100,000			1.0	<30					

f = frequency in MHz. * = Plane-wave equivalent power density. Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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MAXIMUM OUTPUT POWER

5.1 **WLAN**

		An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		20.00	19.91
	802.11b	6	2437	1Mbps	20.00	19.96
		11	2462		20.00	19.99
		1	2412		17.00	16.90
	802.11g	6	2437	6Mbps	20.00	19.86
		11	2462		17.00	16.84
	802.11n20-HT0	1	2412		16.00	15.75
		6	2437	MCS0	20.00	19.89
		11	2462		16.00	15.74
	802.11ac20-VHT0	1	2412]	16.00	15.89
		6	2437	MCS0	20.00	19.82
2.45GHz		11	2462		16.00	15.79
2.430112		1	2412		16.00	15.75
	802.11ax20-HE0	6	2437	MCS0	20.00	19.90
		11	2462		16.00	15.75
		3	2422]	15.00	14.78
	802.11n40-HT0	6	2437	MCS0	18.00	17.85
		9	2452		15.00	14.84
		3	2422]	15.00	14.89
	802.11ac40-VHT0	6	2437	MCS0	18.00	17.81
		9	2452		15.00	14.89
		3	2422]	15.00	14.87
	802.11ax40-HE0	6	2437	MCS0	18.00	17.93
		9	2452		15.00	14.77

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	1	An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		14.50	14.35
	000 446	40	5200	CM //on a	14.50	14.39
	802.11a	44	5220	6Mbps	14.50	14.36
		48	5240		14.50	14.32
	802.11n20-HT0	36	5180		14.50	14.31
		40	5200	MCS0	14.50	14.38
		44	5220	IVICSU	14.50	14.32
		48	5240]	14.50	14.38
		36	5180		14.50	14.35
	802.11ac20-VHT0	40	5200	MCS0	14.50	14.36
		44	5220	IVICSU	14.50	14.34
5.15-5.25 GHz		48	5240		14.50	14.31
5.15-5.25 GHZ		36	5180		14.50	14.40
	802.11ax20-HE0	40	5200	MCS0	14.50	14.36
	802.118X20-ME0	44	5220	IVICSU	14.50	14.35
		48	5240]	14.50	14.40
	000 44 × 40 LITO	38	5190	MCS0	14.50	14.37
	802.11n40-HT0	46	5230	IVICSU	14.50	14.48
	902 11cc40 \/LITO	38	5190	MCCO	14.50	14.42
	802.11ac40-VHT0	46	5230	MCS0	14.50	14.30
	802.11ax40-HE0	38	5190	MCS0	14.50	14.39
	OUZ. I I dX4U-TIEU	46	5230	IVICSU	14.50	14.35
	802.11ac80-VHT0	42	5210	MCS0	14.50	14.32
	802.11ax80-HE0	42	5210	MCS0	14.50	14.45

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		<u>An</u>	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		14.50	14.28
	802.11a	56	5280	GMbps	14.50	14.24
	802.11a	60	5300	6Mbps	14.50	14.32
		64	5320		14.50	14.22
	802.11n20-HT0	52	5260		14.50	14.35
		56	5280	MCS0	14.50	14.34
		60	5300	IVICSU	14.50	14.24
		64	5320		14.50	14.28
		52	5260		14.50	14.28
	802.11ac20-VHT0	56	5280	MCS0	14.50	14.39
		60	5300	IVICSO	14.50	14.25
5.25-5.35 GHz		64	5320		14.50	14.41
5.25-5.35 GHZ		52	5260		14.50	14.30
	802.11ax20-HE0	56	5280	MCS0	14.50	14.41
	002.11dX20-HEU	60	5300	IVICSU	14.50	14.24
		64	5320		14.50	14.41
	802.11n40-HT0	54	5270	MCS0	14.50	14.35
	002.111140-1110	62	5310	IVICSU	14.50	14.36
	802.11ac40-VHT0	54	5270	MCS0	14.50	14.40
	002.11a040-V1110	62	5310	IVICOU	14.50	14.23
	802.11ax40-HE0	54	5270	MCS0	14.50	14.37
	UUZ. I TAXHU-I ILU	62	5310	IVICOU	14.50	14.38
	802.11ac80-VHT0	58	5290	MCS0	14.50	14.42
	802.11ax80-HE0	58	5290	MCS0	14.50	14.25

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	Т	An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		17.00	16.77
	000.446	120	5600	CN/lene	17.00	16.82
	802.11a	140	5700	6Mbps	17.00	16.72
		144	5720	1	17.00	16.84
		100	5500		17.00	16.81
	000 44×00 LITO	120	5600	MCCO	17.00	16.83
	802.11n20-HT0	140	5700	MCS0	17.00	16.80
		144	5720	1	17.00	16.79
	802.11ac20-VHT0	100	5500		17.00	16.71
		120	5600	MCS0	17.00	16.84
		140	5700	IVICSU	17.00	16.79
		144	5720		17.00	16.83
		100	5500		17.00	16.71
	802.11ax20-HE0	120	5600	MCS0	17.00	16.85
	002.11ax20-11L0	140	5700	IVICSU	17.00	16.83
		144	5720		17.00	16.79
5.6GHz	802.11n40-HT0	102	5510	MCS0	15.50	15.36
3.0GHZ		118	5590		17.00	16.79
		134	5670		17.00	16.90
		142	5710		17.00	16.76
		102	5510		15.50	15.38
	802.11ac40-VHT0	118	5590	MCS0	17.00	16.76
	002.11ac40-VH10	134	5670	IVICSU	17.00	16.76
		142	5710		17.00	16.87
		102	5510		15.50	15.36
	802.11ax40-HE0	118	5590	MCS0	17.00	16.78
	002.11ax40-11LU	134	5670	IVICOU	17.00	16.87
		142	5710		17.00	16.85
		106	5530	1	15.50	15.35
	802.11ac80-VHT0	122	5610	MCS0	17.00	16.96
		138	5690		17.00	16.99
		106	5530]	15.50	15.34
	802.11ax80-HE0	122	5610	MCS0	17.00	16.87
		138	5690		17.00	16.72

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		An	ıt Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		16.00	15.95
	802.11a	157	5785	6Mbps	16.00	15.96
		165	5825		16.00	15.94
		149	5745		16.00	15.84
	802.11n20-HT0	157	5785	MCS0	16.00	15.94
		165	5825		16.00	15.96
		149	5745]	16.00	15.93
	802.11ac20-VHT0	157	5785	MCS0	16.00	15.85
		165	5825		16.00	15.83
5.8GHz		149	5745]	16.00	15.89
J.J.J. IZ	802.11ax20-HE0	157	5785	MCS0	16.00	15.95
		165	5825		16.00	15.87
	802.11n40-HT0	151	5755	MCS0	16.00	15.92
	002.1111401110	159	5795	WOOO	16.00	15.88
	802.11ac40-VHT0	151	5755	MCS0	16.00	15.94
	002.11d0+0 V1110	159	5795	WOOO	16.00	15.88
	802.11ax40-HE0	151	5755	MCS0	16.00	15.92
		159	5795		16.00	15.97
	802.11ac80-VHT0	155	5775	MCS0	16.00	15.99
	802.11ax80-HE0	155	5775	MCS0	16.00	15.96
		An	t Main			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		15.50	15.29
	802.11a	173	5865	6Mbps	15.50	15.32
		177	5885	1 '	15.50	15.20
		169	5845		16.00	15.73
	802.11n20-HT0	173	5865	MCS0	16.00	15.74
		177	5885	1	16.00	15.78
		169	5845		16.00	15.74
	802.11ac20-VHT0	173	5865	MCS0	16.00	15.87
		177	5885	1	16.00	15.86
F 0011		169	5845		16.00	15.83
5.9GHz	802.11ax20-HE0	173	5865	MCS0	16.00	15.84
		177	5885	1 !	16.00	15.78
	000 44~ 40 LITO	167	5835	MCCC	16.00	15.68
	802.11n40-HT0			MCS0	16.00	15.78
	802.111140-H10	175	5875			
		175 167	5835	MCCC	16.00	15.84
	802.111ac40-VHT0			MCS0		15.84 15.80
	802.11ac40-VHT0	167	5835		16.00	
		167 175	5835 5875	MCS0 MCS0	16.00 16.00	15.80
	802.11ac40-VHT0	167 175 167	5835 5875 5835		16.00 16.00 16.00	15.80 15.84

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		Ar	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		20.00	19.96
	802.11b	6	2437	1Mbps	20.00	19.91
		11	2462	1	20.00	19.88
		1	2412		17.00	16.91
	802.11g	6	2437	6Mbps	20.00	19.74
		11	2462		17.00	16.80
		1	2412		16.00	15.83
	802.11n20-HT0	6	2437	MCS0	20.00	19.86
		11	2462		16.00	15.84
	802.11ac20-VHT0	1	2412	MCS0	16.00	15.77
		6	2437		20.00	19.93
2.45GHz		11	2462		16.00	15.78
2.430112		1	2412]	16.00	15.92
	802.11ax20-HE0	6	2437	MCS0	20.00	19.82
		11	2462		16.00	15.78
		3	2422]	15.00	14.77
	802.11n40-HT0	6	2437	MCS0	18.00	17.87
		9	2452		15.00	14.77
		3	2422]	15.00	14.88
	802.11ac40-VHT0	6	2437	MCS0	18.00	17.76
		9	2452		15.00	14.79
		3	2422]	15.00	14.82
	802.11ax40-HE0	6	2437	MCS0	18.00	17.88
		9	2452		15.00	14.79

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		Ar	nt Aux	1		
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		14.50	14.31
	000.446	40	5200	CM/lana	14.50	14.36
	802.11a	44	5220	6Mbps	14.50	14.35
		48	5240]	14.50	14.40
	802.11n20-HT0	36	5180		14.50	14.32
		40	5200	MCS0	14.50	14.32
		44	5220	IVICSU	14.50	14.34
		48	5240]	14.50	14.38
		36	5180		14.50	14.32
	802.11ac20-VHT0	40	5200	- MCS0	14.50	14.33
		44	5220		14.50	14.32
5.15-5.25 GHz		48	5240		14.50	14.39
5.15-5.25 GHZ		36	5180		14.50	14.38
	802.11ax20-HE0	40	5200	MCS0	14.50	14.31
	002.11ax20-HEU	44	5220	IVICSU	14.50	14.36
		48	5240		14.50	14.33
	802.11n40-HT0	38	5190	MCS0	14.50	14.35
	002.1111 4 0-1110	46	5230	IVICSU	14.50	14.40
	802.11ac40-VHT0	38	5190	MCS0	14.50	14.37
	002.11a040-VH10	46	5230	IVICSU	14.50	14.40
	802.11ax40-HE0	38	5190	MCS0	14.50	14.43
	002.11ax40-11EU	46	5230	IVICOU	14.50	14.29
	802.11ac80-VHT0	42	5210	MCS0	14.50	14.28
	802.11ax80-HE0	42	5210	MCS0	14.50	14.40

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		<u>Ar</u>	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		14.50	14.40
	000.446	56	5280	CM/lama	14.50	14.33
	802.11a	60	5300	6Mbps	14.50	14.37
		64	5320	1	14.50	14.26
	802.11n20-HT0	52	5260		14.50	14.26
		56	5280	MCS0	14.50	14.34
		60	5300	IVICSU	14.50	14.24
		64	5320	1	14.50	14.23
		52	5260		14.50	14.29
	802.11ac20-VHT0	56	5280	MCS0	14.50	14.26
		60	5300	IVICSO	14.50	14.31
5,25-5,35 GHz		64	5320		14.50	14.37
5.25-5.35 GHZ		52	5260		14.50	14.29
	802.11ax20-HE0	56	5280	MCS0	14.50	14.25
	002.11ax20-HEU	60	5300	IVICSU	14.50	14.41
		64	5320		14.50	14.27
	802.11n40-HT0	54	5270	MCS0	14.50	14.27
	002.1111 4 0-H10	62	5310	IVICSU	14.50	14.31
	802.11ac40-VHT0	54	5270	MCS0	14.50	14.42
	002.11a040-VH10	62	5310	IVICSU	14.50	14.35
	802.11ax40-HE0	54	5270	MCS0	14.50	14.37
	UUZ. I TANHU-I ILU	62	5310	IVICOU	14.50	14.27
	802.11ac80-VHT0	58	5290	MCS0	14.50	14.49
	802.11ax80-HE0	58	5290	MCS0	14.50	14.24

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		Ar	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		17.00	16.81
	000.44-	120	5600	CN //-	17.00	16.75
	802.11a	140	5700	6Mbps	17.00	16.85
		144	5720	1	17.00	16.87
		100	5500		17.00	16.89
	000 44 - 00 LITO	120	5600	Moss	17.00	16.76
	802.11n20-HT0	140	5700	MCS0	17.00	16.73
		144	5720	1	17.00	16.77
		100	5500		17.00	16.90
	802.11ac20-VHT0	120	5600	MCS0	17.00	16.88
		140	5700		17.00	16.88
		144	5720	1	17.00	16.81
		100	5500		17.00	16.80
	000 44 av 20 LIE0	120	5600	Moso	17.00	16.74
	802.11ax20-HE0	140	5700	MCS0	17.00	16.88
		144	5720]	17.00	16.90
5.6GHz		102	5510	- MCS0	15.50	15.41
5.6GHZ	000 44 = 40 LITO	118	5590		17.00	16.80
	802.11n40-HT0	134	5670		17.00	16.80
		142	5710	1	17.00	16.84
		102	5510		15.50	15.35
	000 44 40 1/4/50	118	5590	Moco	17.00	16.71
	802.11ac40-VHT0	134	5670	MCS0	17.00	16.86
		142	5710	1	17.00	16.89
		102	5510		15.50	15.35
	902 11av 10 HE0	118	5590	MCS0	17.00	16.76
	802.11ax40-HE0	134	5670	IVICSU	17.00	16.90
		142	5710		17.00	16.79
		106	5530		15.50	15.49
	802.11ac80-VHT0	122	5610	MCS0	17.00	16.99
		138	5690		17.00	16.98
		106	5530		15.50	15.36
	802.11ax80-HE0	122	5610	MCS0	17.00	16.77
		138	5690	<u> </u>	17.00	16.75

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		Aı	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		16.00	15.97
	802.11a	157	5785	6Mbps	16.00	15.85
		165	5825		16.00	15.88
		149	5745		16.00	15.80
	802.11n20-HT0	157	5785	MCS0	16.00	15.84
		165	5825		16.00	15.91
		149	5745]	16.00	15.97
	802.11ac20-VHT0	157	5785	MCS0	16.00	15.83
		165	5825		16.00	15.79
5.8GHz		149	5745]	16.00	15.86
3.00i iz	802.11ax20-HE0	157	5785	MCS0	16.00	15.90
		165	5825		16.00	15.82
	802.11n40-HT0	151	5755	MCS0	16.00	15.97
	002.111140 1110	159	5795	WOOO	16.00	15.94
	802.11ac40-VHT0	151	5755	MCS0	16.00	15.86
	002.11d040 VIII0	159	5795	WOOO	16.00	15.95
	802.11ax40-HE0	151	5755	MCS0	16.00	15.92
		159	5795		16.00	15.90
	802.11ac80-VHT0	155	5775	MCS0	16.00	15.99
	802.11ax80-HE0	155	5775	MCS0	16.00	15.90
		Aı	nt Aux			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		169	5845		15.50	15.22
	802.11a	173	5865	6Mbps	15.50	15.27
		177	5885	1 1	15.50	15.36
		169	5845		16.00	15.83
	802.11n20-HT0	173	5865	MCS0	16.00	15.72
		177	5885	1	16.00	15.73
		169	5845		16.00	15.71
	802.11ac20-VHT0	173	5865	MCS0	16.00	15.71
		177	5885	1	16.00	15.88
5 00L		169	5845		16.00	15.78
5.9GHz	802.11ax20-HE0	173	5865	MCS0	16.00	15.70
		177	5885	<u>] </u>	16.00	15.87
	902 11540 LITO	167	5835	MCS0	16.00	15.78
	802.11n40-HT0	175	5875	IVICSU	16.00	15.76
				MCS0	16.00	15.84
	902 11cc 40 \/LTC	167	5835		16.00	15.04
	802.11ac40-VHT0	167 175	5835 5875	MCS0	16.00	15.64
	802.11ac40-VHT0 802.11ax40-HE0	175	5875	MCS0 MCS0	16.00	15.79
		175 167	5875 5835		16.00 16.00	15.79 15.85

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5.2 **Bluetooth**

			1Mbps		2Mbps		3Mbps		
Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
	CH 00	2402		5.71		4.71		4.73	
BR/EDR	CH 39	2441	6.00	5.09	6.00	4.25	6.00	4.81	
	CH 78	2480		4.43		4.89		4.77	

5.3 **BLE**

Mada	Channal	Frequency	GFSK						
Mode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)					
	CH 00	2402		5.29					
BLE_1M	CH 19	2440	6	5.38					
	CH 39	2480		5.56					
Mode	Channel	Frequency		GFSK					
Mode	Chamer	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)					
	CH 00			5.14					
BLE_2M	CH 19	2440	6	5.34					
	CH 39	2480		5.58					

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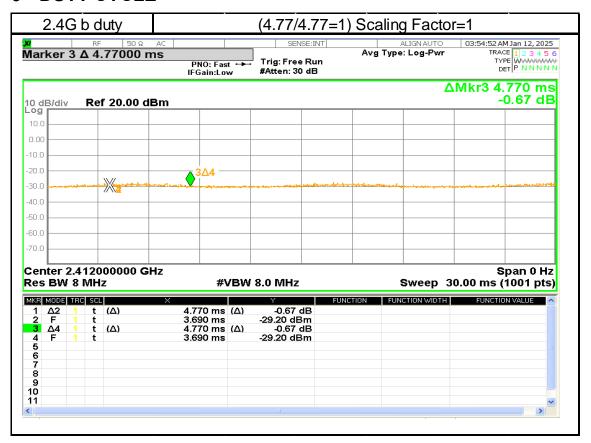
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6 DUTY CYCLE



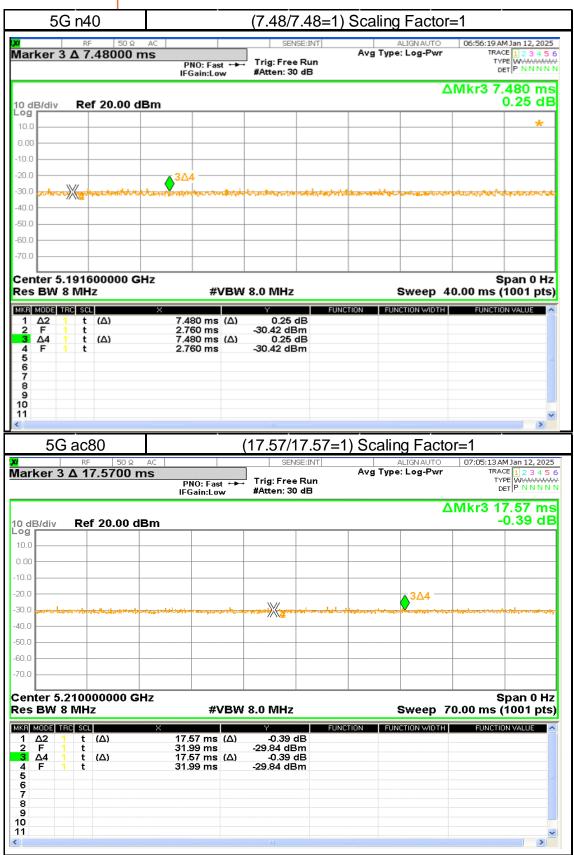
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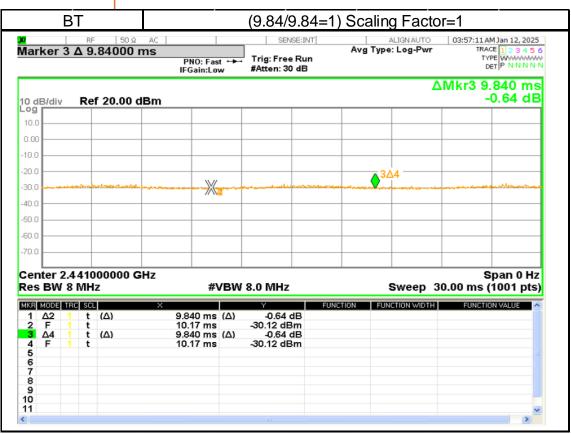
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SUMMARY OF RESULTS

7.1 **Decision rules**

Reported measurement data comply with Test Methodology in section 1.1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

7.2 **Summary of SAR Results**

Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID.
Ballu	Antenna	Position	(mm)	Chamie	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11b	Ant Main	Bottom of Laptop	0	11	2462	20.00	19.99	1.00	100.23%	0.359	0.360	001
WLAN 802.11b	Ant Main	Front Edge of Laptop	0	1	2412	20.00	19.91	1.00	102.09%	1.100	1.123	-
WLAN 802.11b	Ant Main	Front Edge of Laptop	0	6	2437	20.00	19.96	1.00	100.93%	1.030	1.040	_
WLAN 802.11b	Ant Main		0	11	2462	20.00	19.99	1.00	100.93%	1.150	1.153	014
	Ant Main Ant Main	Front Edge of Laptop	0	11	2462	20.00	19.99	1.00		1.150	1.153	014
WLAN 802.11b	Ant Main	Front Edge of Laptop*	0	11	2462			1.00	100.23%	1.130	1.133	-
Band	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID
Band	Antenna	Position	(mm)	Channel	(MHz)	Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	ID.
WLAN 802.11ac(80M) 5.2G	Ant Main	Bottom of Laptop	0	42	5210	14.50	14.32	1.00	104.23%			002
WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G	Ant Main		0	42	5210	14.50	14.32	1.00	104.23%	0.073	0.076 0.931	002
		Front Edge of Laptop										015
WLAN 802.11ac(80M) 5.2G	Ant Main	Front Edge of Laptop*	0	42	5210	14.50	14.32	1.00	104.23%	0.888	0.926	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11ac(80M) 5.3G	Ant Main	Bottom of Laptop	0	58	5290	14.50	14.42	1.00	101.86%	0.077	0.078	003
WLAN 802.11ac(80M) 5.3G	Ant Main	Front Edge of Laptop	0	58	5290	14.50	14.42	1.00	101.86%	0.898	0.915	016
WLAN 802.11ac(80M) 5.3G	Ant Main			58	5290	14.50	14.42	1.00	101.86%	0.877	0.893	- 010
WLAN 802.11ac(80W) 5.3G	Ant Main	Front Edge of Laptop*	0	58	5290			1.00	101.86%	0.877	0.893	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		over 1g (W/kg)	ID
			, ,			Tolerance (dBm)	(dBm)			Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom of Laptop	0	106	5530	15.50	15.35	1.00	103.51%	0.103	0.107	
WLAN 802.11ac(80M) 5.6G	Ant Main	Bottom of Laptop	0	138	5690	17.00	16.99	1.00	100.23%	0.161	0.161	004
WLAN 802.11ac(80M) 5.6G	Ant Main	Front Edge of Laptop	0	106	5530	15.50	15.35	1.00	103.51%	1.060	1.097	-
WLAN 802.11ac(80M) 5.6G	Ant Main	Front Edge of Laptop	0	138	5690	17.00	16.99	1.00	100.23%	1.150	1.153	017
WLAN 802.11ac(80M) 5.6G	Ant Main	Front Edge of Laptop*	0	138	5690	17.00	16.99	1.00	100.23%	1.120	1.123	
` '			B: 4			Max. Rated Avg.	Measured					
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max.	Avg. Power	Duty cycle	Power scaling	Averaged SAR	over 1g (W/kg)	ID
			(mm)		(IVITIZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Ant Main	Bottom of Laptop	0	155	5775	16.00	15.99	1.00	100.23%	0.121	0.121	005
WLAN 802.11ac(80M) 5.8G	Ant Main	Front Edge of Laptop	0	155	5775	16.00	15.99	1.00	100.23%	1.160	1.163	018
WLAN 802.11ac(80M) 5.8G	Ant Main	Front Edge of Laptop*	0	155	5775	16.00	15.99	1.00	100.23%	1.120	1.123	
172 11 002: 1 1d0(0011) 0:00	7 til IVidii I	Tront Eage of Eaptop	Ů	.00	00	Max. Rated Avg.	Measured	1.00	100.2070			
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802 11ac(80M) 5.9G	Ant Main	Bottom of Laptop	0	171	5855	16.00	15.99	1.00	100.23%	0.136	0.136	006
WLAN 802.11ac(80M) 5.9G	Ant Main	Front Edge of Laptop	0	171	5855	16.00	15.99	1.00	100.23%	1.180	1.183	019
WLAN 802.11ac(80M) 5.9G	Ant Main	Front Edge of Laptop*	0	171	5855	16.00	15.99	1.00	100.23%	1.150	1.153	-
Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 1g (W/kg) Reported	ID
WLAN 802.11b	Ant Aux	Bottom of Laptop	0	1	2412	20.00	19.96	1.00	100.93%	0.295	0.298	007
WLAN 802.11b	Ant Aux	Bottom of Laptop	0	6	2437	20.00	19.91	1.00	102.09%	0.234	0.239	-
WLAN 802.11b	Ant Aux	Bottom of Laptop	0	11	2462	20.00	19.88	1.00	102.80%	0.255	0.262	
				1								
WLAN 802.11b	Ant Aux	Front Edge of Laptop	0		2412	20.00	19.96	1.00	100.93%	1.040	1.050	020
WLAN 802.11b	Ant Aux	Front Edge of Laptop	0	6	2437	20.00	19.91	1.00	102.09%	0.994		
WLAN 802.11b	Ant Aux	Front Edge of Laptop	0								1.015	
Band				11	2462	20.00	19.88	1.00	102.80%	0.982	1.010	-
	Antenna	Position	Distance (mm)	11 Channel	2462 Freq. (MHz)	20.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	19.88 Measured Avg. Power (dBm)	1.00 Duty cycle scaling	102.80% Power scaling			ID
Bluetooth(GFSK)	Antenna Ant Aux				Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power scaling	Averaged SAR	1.010 over 1g (W/kg)	
Bluetooth(GFSK)	Ant Aux	Bottom of Laptop	(mm) 0	Channel 00	Freq. (MHz) 2402	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00	Measured Avg. Power (dBm) 5.71	Duty cycle scaling	Power scaling 106.91%	Averaged SAR Measured 0.020	1.010 over 1g (W/kg) Reported 0.021	ID 008
Bluetooth(GFSK)	Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop	(mm) 0 0	Channel 00 00	Freq. (MHz) 2402 2402	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00	Measured Avg. Power (dBm) 5.71 5.71	Duty cycle scaling 1.00	Power scaling 106.91% 106.91%	Averaged SAR Measured 0.020 0.053	1.010 over 1g (W/kg) Reported 0.021 0.057	ID
Bluetooth(GFSK) Bluetooth(GFSK)	Ant Aux Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop	(mm) 0 0	00 00 00 39	Freq. (MHz) 2402 2402 2441	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00	Measured Avg. Power (dBm) 5.71 5.71 5.09	Duty cycle scaling 1.00 1.00	Power scaling 106.91% 106.91% 123.31%	Averaged SAR Measured 0.020 0.053 0.041	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051	ID 008
Bluetooth(GFSK)	Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop	(mm) 0 0	Channel 00 00	Freq. (MHz) 2402 2402	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43	Duty cycle scaling 1.00	Power scaling 106.91% 106.91%	Averaged SAR Measured 0.020 0.053	1.010 over 1g (W/kg) Reported 0.021 0.057	ID 008
Bluetooth(GFSK) Bluetooth(GFSK)	Ant Aux Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop	(mm) 0 0	00 00 00 39	Freq. (MHz) 2402 2402 2441	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max.	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power	Duty cycle scaling 1.00 1.00	Power scaling 106.91% 106.91% 123.31%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg)	ID 008
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position	(mm) 0 0 0 0 Distance (mm)	Channel 00 00 39 78 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm)	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported	008 021 -
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop	(mm) 0 0 0 0 0 Distance (mm)	Channel 00 00 39 78 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075	008 021 - - ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK)	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position	(mm) 0 0 0 0 Distance (mm)	Channel 00 00 39 78 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm)	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported	008 021 -
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop	(mm) 0 0 0 0 0 Distance (mm)	Channel 00 00 39 78 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Power + Max. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg)	008 021 - - ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux Ant Aux Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 14.28 Measured Avg. Power (dBm)	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20% Power scaling	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported	ID 008 021 ID 009 022 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G	Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Position Bottom of Laptop Bottom of Laptop Bottom of Laptop	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 Freq. (MHz) 5290	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.79 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power (dBm) 14.28	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 1.00	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20% Power scaling	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.067 0.061 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported	ID 008 021 ID 009 022 ID 010
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux Ant Aux Ant Aux Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 14.50 14.50 14.50	Measured Avg. Power (dBm) 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 14.28 Measured Avg. Power (dBm)	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20% Power scaling	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported	ID 008 021 ID 009 022 ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(SFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G	Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Position Bottom of Laptop Bottom of Laptop Bottom of Laptop	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 Freq. (MHz) 5290	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 14.28 Measured Avg. Power (dBm) 14.49 Measured Avg. Power	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 1.00	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20% Power scaling	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured 0.079 0.614 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.061 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg)	ID 008 021 ID 009 022 ID 010
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G Band	Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Position Bottom of Laptop Front Edge of Laptop	(mm) 0 0 0 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 58	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 5210 Freq. (MHz) 5290 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.70 6.09 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power (dBm) 14.49 Measured Avg. Power (dBm)	Duty cycle scaling 1.00 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 123.31% 143.55% Power scaling 105.20% 105.20% 100.23% 100.23% Power scaling 100.	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured 0.071 Averaged SAR Measured 0.071 Averaged SAR Measured 0.071	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.076 0.615 over 1g (W/kg)	ID 008 021
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Bottom of Laptop Bottom of Laptop	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 S8 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 Freq. (MHz) 5290 5290 Freq. (MHz) 5690	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00	Measured Avg. Power (dBm) 5.71 5.71 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power (dBm) 14.49 14.49 14.49 16.98 Measured Avg. Power (dBm) 16.98	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 106.91% 107.91% 123.31% 143.55% Power scaling 105.20% Power scaling 100.23% 100.23% 100.23% 100.23% 100.46% 100.46%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured 0.079 0.014 Averaged SAR Measured 0.079 0.014 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg) Reported 0.079 0.615	ID 008 021
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm) 0 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 58 Channel	Freq. (MHz) 2402 2441 2480 Freq. (MHz) 5210 5210 Freq. (MHz) Freq. (MHz) 6520 Freq. (MHz) 6520 5520	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 17.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00	Measured Avg. Power (dSm) 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power (dBm) 14.29 Measured Avg. Power (dBm) 14.49 Measured Avg. Power (dBm) 15.49 15.49 Measured	Duty cycle scaling 1.00 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 1.00 1.00	Power scaling 106.91% 105.91% 123.31% 143.55% Power scaling 105.20% 105.20% 100.23% Power scaling 100.23% 100.23%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.550 Averaged SAR Measured 0.079 0.614 Averaged SAR Measured 0.079 0.614 Averaged SAR Measured 0.079 0.614	1.010 over 1g (W/kg) Reported 0.021 0.057 0.061 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg) Reported 0.079 0.615	008 021
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G Band WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Bottom of Laptop Bottom of Laptop	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm) 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 S8 Channel	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 Freq. (MHz) 5290 5290 Freq. (MHz) 5690	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 15.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.79 6.09 4.43 Measured Avg. Power (dBm) 14.28 14.28 Measured Avg. Power (dBm) 14.49 Measured Avg. Power (dBm) 14.49 Measured Avg. Power (dBm) 16.98	Duty cycle scaling 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 106.91% 107.91% 123.31% 143.55% Power scaling 105.20% Power scaling 100.23% 100.23% 100.23% 100.23% 100.46% 100.46%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured 0.079 0.014 Averaged SAR Measured 0.079 0.014 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg) Reported 0.079 0.615	ID 008 021
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G	Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop	(mm) 0 0 0 0 Distance (mm) 0 Distance (mm) 0 Distance (mm) 0 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 58 Channel	Freq. (MHz) 2402 2441 2480 Freq. (MHz) 5210 5210 Freq. (MHz) Freq. (MHz) 6520 Freq. (MHz) 6520 5520	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Power + Max. Tolerance (dBm)	Measured Avg. Power (dSm) 5.71 5.09 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power (dBm) 14.29 Measured Avg. Power (dBm) 14.49 Measured Avg. Power (dBm) 15.49 15.49 Measured	Duty cycle scaling 1.00 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 1.00 Duty cycle scaling 1.00 1.00 1.00	Power scaling 106.91% 105.91% 123.31% 143.55% Power scaling 105.20% 105.20% 100.23% Power scaling 100.23% 100.23%	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured 0.079 0.614 Averaged SAR Measured 0.095 0.995 0.9971 1.060 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.061 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg) Reported 0.095 0.973 1.065 over 1g (W/kg)	008 021
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.2G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.3G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G Band Band Band WLAN 802.11ac(80M) 5.6G WLAN 802.11ac(80M) 5.6G Band	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux Antenna Ant Aux Antenna Ant Aux Antenna Ant Aux	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position	(mm) 0 0 0 Distance (mm) Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 Channel 138 106 138 Channel	Freq. (MHz) 2402 2441 2480 Freq. (MHz) 5210 5210 5210 Freq. (MHz) 5290 5290 5290 Freq. (MHz) 5690 5690 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg.	Measured Avg. Power (dBm) 5.71 5.71 5.71 5.71 5.71 5.71 5.71 5.93 Measured Avg. Power (dBm) 14.28 Measured (dBm) 14.28 Measured Avg. Power (dBm) 14.49 14.49 16.98 Measured Avg. Power Avg. Power (dBm) 16.98 15.49 16.98 Measured Avg. Power Avg.	Duty cycle scaling 1.00 1.00 1.00 1.00 1.00 1.00 Duty cycle scaling 1.00 Duty cycle scaling 1.00 Duty cycle scaling	Power scaling 106.91% 106.91% 107.91% 107.91% 143.55% 143.55% 105.20% 105.20% 105.20% 100.23% 100.23% 100.23% 100.23% 100.46% 100.23% 100.46% 100.23% 100.46% Power scaling 100.46% Power scaling 100.46% 100.23% 100.46% 100.25% 100.46% 100.25% 100.46% 100.25% 100.46% 100.25% 100.46% 100.25% 100.46% 100.25% 100.46% 100.25% 100.46% 100.25% 100.	Averaged SAR Measured 0.020 0.053 0.041 0.037 Averaged SAR Measured 0.071 0.550 Averaged SAR Measured 0.079 0.614 Averaged SAR Measured 0.095 0.995	1.010 over 1g (W/kg) Reported 0.021 0.057 0.061 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg) Reported 0.079 0.615	ID
Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Bluetooth(GFSK) Band WILAN 802.11ac(80M) 5.2G WILAN 802.11ac(80M) 5.2G WILAN 802.11ac(80M) 5.3G WILAN 802.11ac(80M) 5.3G WILAN 802.11ac(80M) 5.3G WILAN 802.11ac(80M) 5.6G WILAN 802.11ac(80M) 5.6G WILAN 802.11ac(80M) 5.6G	Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux Ant Aux Antenna Ant Aux Antenna Ant Aux Ant Aux Ant Aux Ant Aux Ant Aux Antenna Ant Aux Antenna Ant Aux Antenna	Bottom of Laptop Front Edge of Laptop Front Edge of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop Position Bottom of Laptop Front Edge of Laptop	(mm) 0 0 0 Distance (mm)	Channel 00 00 39 78 Channel 42 42 Channel 58 58 Channel 138 106 138	Freq. (MHz) 2402 2402 2441 2480 Freq. (MHz) 5210 5210 Freq. (MHz) 5290 Freq. (MHz) 5590 Freq. (MHz) 5690 5690 Freq. (Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 6.00 6.00 6.00 6.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 14.50 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Tolerance (dBm) 17.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 5.71 5.71 5.70 4.43 Measured Avg. Power (dBm) 14.28 Measured Avg. Power (dBm) 14.49 Measured Avg. Power (dBm) 16.98 15.49 Measured Avg. Power (dBm) 16.98 Measured Avg. Power (dBm)	Duty cycle scaling 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Power scaling 106.91% 106.91% 107.91% 107.91% 143.55% 143.55% 105.20% 105.20% 105.20% 100.23% 100.23% 100.46%	Averaged SAR Measured 0.020 0.053 0.054 0.037 Averaged SAR Measured 0.079 0.550 Averaged SAR Measured 0.079 0.614 Averaged SAR Measured 0.095 0.971 1.060 Averaged SAR	1.010 over 1g (W/kg) Reported 0.021 0.057 0.051 0.053 over 1g (W/kg) Reported 0.075 0.579 over 1g (W/kg) Reported 0.079 0.615 over 1g (W/kg) Reported 0.095 0.973 1.065 over 1g (W/kg)	008 021 ID 009 022 ID 010 023 ID 011 - 024

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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Band	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
										Measured	Reported	
WLAN 802.11ac(80M) 5.9G	Ant Aux	Bottom of Laptop	0	171	5855	16.00	15.99	1.00	100.23%	0.075	0.075	013
WLAN 802 11ac(80M) 5 9G	Ant Aux	Front Edge of Lanton	0	171	5855	16.00	15 99	1.00	100.23%	0.834	0.836	026

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

Note:

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

7.3 Reporting statements of conformity

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

7.4 Conclusion

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

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SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 **Simultaneous Transmission Scenarios:**

Simultaneous Transmission configurations
WLAN 2.4GHz Main + WLAN 2.4GHz Aux
WLAN 5GHz Main + WLAN 5GHz Aux
WLAN 2.4GHz Main + BT Aux
WLAN 5GHz Main + BT Aux
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux

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8.2 Estimated SAR calculation

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

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

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

8.3 SPLSR evaluation and analysis

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

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

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

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

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

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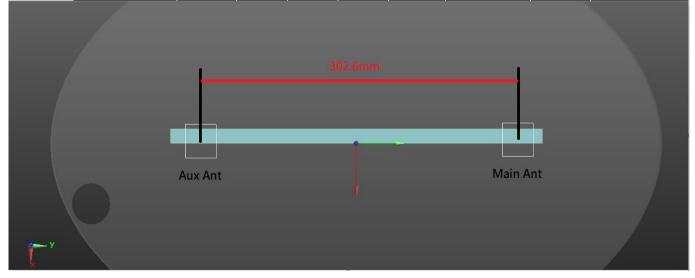
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Simultaneous Transmission Combination

				Reported SAR			Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
Exposure Position		2	3	4	5	7	2+3	4+5	2+7	4+7	4+5+7
		2.4GHz WLAN Ant Main	2.4GHz WLAN Ant Aux	5GHz WLAN Ant Main	5GHz WLAN Ant Aux	Bluetooth Ant Aux	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)				
Bottom of Laptop	0	0.360	0.298	0.161	0.095	0.021	0.658	0.256	0.381	0.182	0.277
Front Edge of Laptop	0	1.153	1.050	1.183	1.065	0.057	2.203	2.248	1.210	1.240	2.305

SPLSR

OI LOIX													
	Scenario 1: Co-location_1g_Body												
Position	Conditions	SAR Value	Co	Coordinates (cm)			Peak Location	SPLSR	Simultaneous Transmission SAR				
Position	Conditions	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSK	Test				
Front Edge of	WLAN 2.4G Main	1.153	-0.24	15.44	-0.38	-	-	-	-				
Laptop	WLAN 2.4G Aux	1.050	-0.12	-14.82	-0.37	2.203	302.60	0.011	SPLSR ≤ 0.04, Not required				



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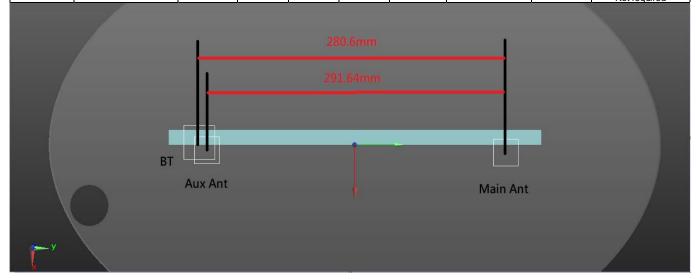
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	Scenario 2&5: Co-location_1g_Body_IC												
Position	Conditions	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR				
Position	Conditions	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSK	Test				
	WLAN 5G Main	1.183	0.38	14.34	-0.40	-	-	-	-				
Front Edge of	WLAN 5G Aux	1.065	0.50	-13.72	-0.39	2.248	280.60	0.012	SPLSR ≤ 0.04, Not required				
Laptop	BT Aux	0.057	-0.12	-14.82	-0.38	1.240	291.64	0.005	SPLSR ≤ 0.04, Not required				
	WLAN 5G + BT Aux	1.122	0.50	-13.72	-0.39	2.305	280.60	0.012	SPLSR ≤ 0.04, Not required				



Conclusion 8.4

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

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INSTRUMENTS LIST

	Equipment List											
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration							
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/15/2024	Feb/14/2025							
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Oct/07/2024	Oct/06/2025							
SPEAG	System Validation Dipole	D2450V2	727	Apr/22/2024	Apr/21/2025							
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2025							
SPEAG	Dielectric Assessment Kit	DAK-3.5	1342	May/21/2024	May/20/2025							
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025							
Agilent	Dual-directional coupler	772D	MY52180142	Oct/30/2024	Oct/29/2025							
Agilent	Dual-directional coupler	778D	MY52180302	Nov/06/2024	Nov/05/2025							
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required							
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required							
R&S	Power Meter	NRX	102191	Feb/27/2024	Feb/26/2025							
R&S	Power Sensor	NRP18S	109065	Aug/28/2024	Aug/27/2025							
R&S	Power Sensor	NRP18S	101974	Nov/11/2024	Nov/10/2025							
Agilent	Network Analyzer	E5071C	MY46107530	May/03/2024	May/02/2025							
Keysight	EXA Signal Analyzer	N9010B	MY63440390	Feb/16/2024	Feb/15/2025							
Keysight	Economy calibration kit	85032E	MY61410221	May/29/2024	May/28/2025							
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required							
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required							
LKM	Digital thermometer	DTM3000	EC14010603	Nov/11/2024	Nov/10/2025							
TECPEL	Digital thermometer	DTM-303A	TP131515	May/23/2024	May/22/2025							

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10 UNCERTAINTY BUDGET

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

	1	1		1	1	1	1		
A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞0
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	8
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	8
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	8
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.39%	N	1	1	0.64	0.43	0.25%	0.17%	М
Liquid Conductivity (mea.)	2.76%	N	1	1	0.6	0.49	1.66%	1.35%	М
Combined standard uncertainty		RSS					11.84%	11.79%	
Expant uncertainty (95% confidence interval), K=2							23.67%	23.57%	

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	~
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	8
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	~
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.40%	N	1	1	0.64	0.43	0.26%	0.17%	М
Liquid Conductivity (mea.)	3.00%	N	1	1	0.6	0.49	1.80%	1.47%	М
Combined standard uncertainty		RSS					11.56%	11.50%	
Expant uncertainty (95% confidence interval), K=2							23.12%	23.01%	

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11 SAR MEASUREMENT RESULTS

Date: 2025/1/14

ID: 001

Report No.: TESA2501000002ES

WLAN 802.11b_Body_Bottom of Laptop_CH 11_0mm_Main

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

Medium parameters used: f = 2462 MHz; $\sigma = 1.852 \text{ S/m}$; $\epsilon r = 39.027$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(7.73, 7.08, 7.39) @ 2462 MHz; Calibrated: 2024/10/7

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2024/2/15

Phantom: ELI

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

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.462 W/kg

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

Reference Value = 14.39 V/m; Power Drift = -0.14 dB

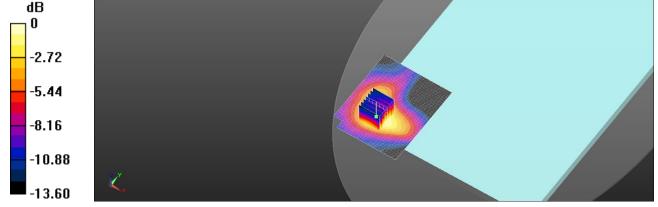
Peak SAR (extrapolated) = 0.517 W/kg

SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.220 W/kg

Smallest distance from peaks to all points 3 dB below = 15 mm

Ratio of SAR at M2 to SAR at M1 = 68.8%

Maximum value of SAR (measured) = 0.456 W/kg



0 dB = 0.456 W/kg = -3.41 dBW/kg

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Date: 2025/1/15

ID: 002

Report No. :TESA2501000002ES

WLAN 802.11ac(80M) 5.2G_Body_Bottom of Laptop_CH 42_0mm_Main

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

Medium parameters used: f = 5210 MHz; $\sigma = 4.762 \text{ S/m}$; $\epsilon r = 35.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(6.25, 5.72, 5.98) @ 5210 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.233 W/kg

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

Reference Value = 7.152 V/m; Power Drift = -0.06 dB

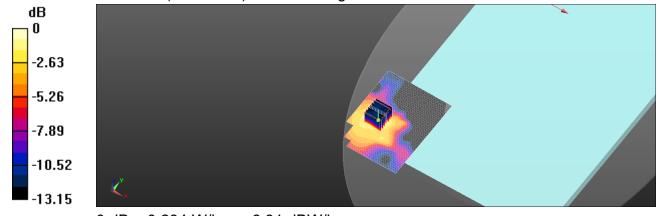
Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.055 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 64.4%

Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg = -6.31 dBW/kg

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Date: 2025/1/15

ID: 003

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.3G Body Bottom of Laptop CH 58 0mm Main

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

Medium parameters used: f = 5290 MHz; $\sigma = 4.856 \text{ S/m}$; $\epsilon r = 35.787$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(6.25, 5.72, 5.98) @ 5290 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.221 W/kg

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

Reference Value = 6.886 V/m; Power Drift = -0.15 dB

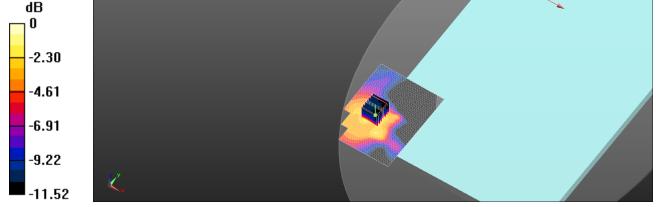
Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 64.2%

Maximum value of SAR (measured) = 0.223 W/kg



0 dB = 0.223 W/kg = -6.52 dBW/kg

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Date: 2025/1/15

ID: 004

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.6G Body Bottom of Laptop CH 138 0mm Main

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

Medium parameters used: f = 5690 MHz; $\sigma = 5.293 \text{ S/m}$; $\epsilon r = 35.375$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.32, 5.56) @ 5690 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.304 W/kg

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

Reference Value = 7.966 V/m; Power Drift = -0.11 dB

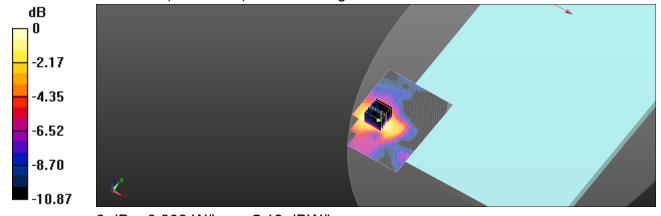
Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 61.4%

Maximum value of SAR (measured) = 0.303 W/kg



0 dB = 0.303 W/kg = -5.19 dBW/kg

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Date: 2025/1/15

ID: 005

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom of Laptop_CH 155_0mm_Main

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

Medium parameters used: f = 5775 MHz; $\sigma = 5.38 \text{ S/m}$; $\epsilon r = 35.258$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.81, 5.32, 5.56) @ 5775 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 6.765 V/m; Power Drift = -0.08 dB

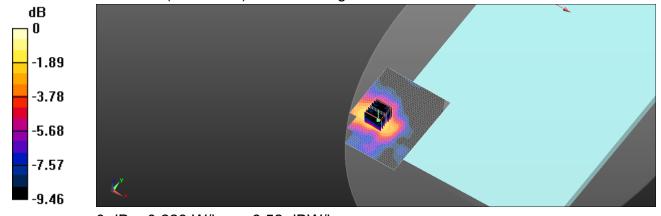
Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.065 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 62.5%

Maximum value of SAR (measured) = 0.223 W/kg



0 dB = 0.223 W/kg = -6.52 dBW/kg

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Date: 2025/1/15

ID: 006

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.9G Body Bottom of Laptop CH 171 0mm Main

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1

Medium parameters used: f = 5855 MHz; $\sigma = 5.475$ S/m; $\epsilon r = 35.114$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.76, 5.28, 5.51) @ 5855 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.254 W/kg

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

Reference Value = 7.212 V/m; Power Drift = -0.08 dB

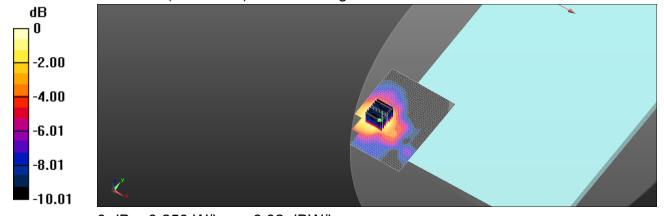
Peak SAR (extrapolated) = 0.395 W/kg

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.074 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

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

Maximum value of SAR (measured) = 0.250 W/kg



0 dB = 0.250 W/kg = -6.02 dBW/kg

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Date: 2025/1/14

ID: 007

Report No.: TESA2501000002ES

WLAN 802.11b_Body_Bottom of Laptop_CH 1_0mm_Aux

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

Medium parameters used: f = 2412 MHz; $\sigma = 1.82 \text{ S/m}$; $\epsilon r = 39.253$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(7.73, 7.08, 7.39) @ 2412 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.372 W/kg

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

Reference Value = 12.63 V/m; Power Drift = -0.05 dB

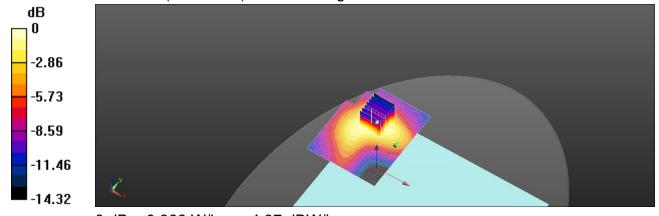
Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.184 W/kg

Smallest distance from peaks to all points 3 dB below = 17 mm

Ratio of SAR at M2 to SAR at M1 = 67.3%

Maximum value of SAR (measured) = 0.366 W/kg



0 dB = 0.366 W/kg = -4.37 dBW/kg

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Date: 2025/1/14

ID: 008

Report No.: TESA2501000002ES

Bluetooth(GFSK) Body Bottom of Laptop CH 1 0mm Aux

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1

Medium parameters used: f = 2402 MHz; $\sigma = 1.757 \text{ S/m}$; $\epsilon r = 39.266$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(7.73, 7.08, 7.39) @ 2402 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0243 W/kg

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

Reference Value = 3.267 V/m; Power Drift = 0.12 dB

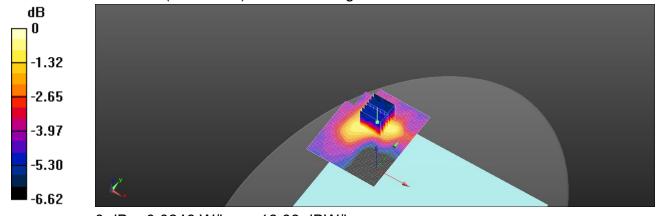
Peak SAR (extrapolated) = 0.0270 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.015 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 = 74.4%

Maximum value of SAR (measured) = 0.0246 W/kg



0 dB = 0.0246 W/kg = -16.09 dBW/kg

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Date: 2025/1/15

ID: 009

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.2G Body Bottom of Laptop CH 42 0mm Aux

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

Medium parameters used: f = 5210 MHz; $\sigma = 4.762 \text{ S/m}$; $\epsilon r = 35.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(6.25, 5.72, 5.98) @ 5210 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.226 W/kg

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

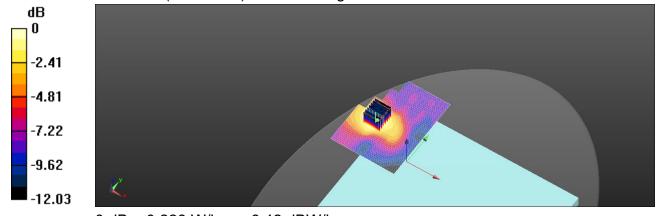
Reference Value = 6.258 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.042 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 = 67.1%

Maximum value of SAR (measured) = 0.228 W/kg



0 dB = 0.228 W/kg = -6.42 dBW/kg

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Date: 2025/1/15

ID: 010

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.3G Body Bottom of Laptop CH 58 0mm Aux

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

Medium parameters used: f = 5290 MHz; $\sigma = 4.856 \text{ S/m}$; $\epsilon r = 35.787$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(6.25, 5.72, 5.98) @ 5290 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.252 W/kg

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

Reference Value = 6.483 V/m; Power Drift = 0.12 dB

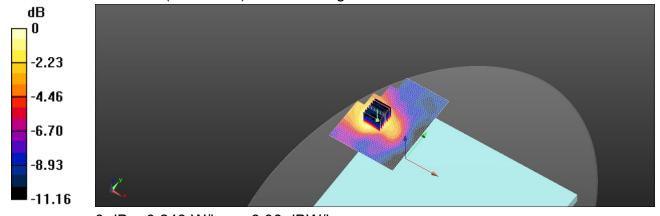
Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.051 W/kg

Smallest distance from peaks to all points 3 dB below = 16.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.4%

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.248 W/kg = -6.06 dBW/kg

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Date: 2025/1/15

ID: 011

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.6G Body Bottom of Laptop CH 138 0mm Aux

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

Medium parameters used: f = 5690 MHz; $\sigma = 5.293 \text{ S/m}$; $\epsilon r = 35.375$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.32, 5.56) @ 5690 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.152 W/kg

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

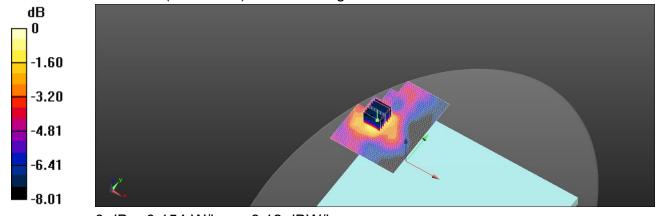
Reference Value = 5.308 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.058 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 = 67.1%

Maximum value of SAR (measured) = 0.154 W/kg



0 dB = 0.154 W/kg = -8.12 dBW/kg

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Date: 2025/1/15

ID: 012

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom of Laptop_CH 155_0mm_Aux

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

Medium parameters used: f = 5775 MHz; $\sigma = 5.38 \text{ S/m}$; $\epsilon r = 35.258$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.81, 5.32, 5.56) @ 5775 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.141 W/kg

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

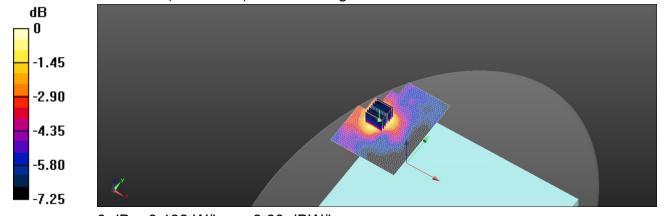
Reference Value = 5.410 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.058 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 = 69%

Maximum value of SAR (measured) = 0.138 W/kg



0 dB = 0.138 W/kg = -8.60 dBW/kg

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Date: 2025/1/15

ID: 013

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.9G Body Bottom of Laptop CH 171 0mm Aux

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1

Medium parameters used: f = 5855 MHz; $\sigma = 5.475$ S/m; $\epsilon r = 35.114$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.76, 5.28, 5.51) @ 5855 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.112 W/kg

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

Reference Value = 4.806 V/m; Power Drift = 0.17 dB

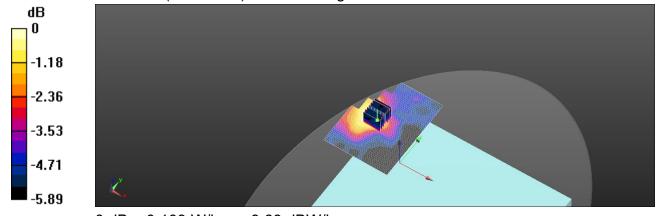
Peak SAR (extrapolated) = 0.183 W/kg

SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.050 W/kg

Smallest distance from peaks to all points 3 dB below = 15.4 mm

Ratio of SAR at M2 to SAR at M1 = 70.7%

Maximum value of SAR (measured) = 0.109 W/kg



0 dB = 0.109 W/kg = -9.63 dBW/kg

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Date: 2025/1/14

ID: 014

Report No.: TESA2501000002ES

WLAN 802.11b Body Front Edge of Laptop CH 11 0mm Main

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

Medium parameters used: f = 2462 MHz; $\sigma = 1.852 \text{ S/m}$; $\epsilon r = 39.027$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(7.73, 7.08, 7.39) @ 2462 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.77 W/kg

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

Reference Value = 15.01 V/m; Power Drift = 0.02 dB

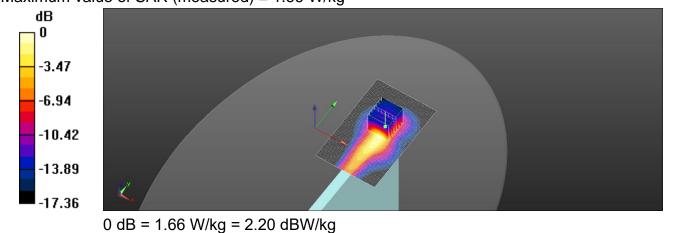
Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.573 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

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

Maximum value of SAR (measured) = 1.66 W/kg



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Date: 2025/1/15

ID: 015

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.2G Body Front Edge of Laptop CH 42 0mm Main

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

Medium parameters used: f = 5210 MHz; $\sigma = 4.762 \text{ S/m}$; $\epsilon r = 35.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(6.25, 5.72, 5.98) @ 5210 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.65 W/kg

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

Reference Value = 11.48 V/m; Power Drift = -0.10 dB

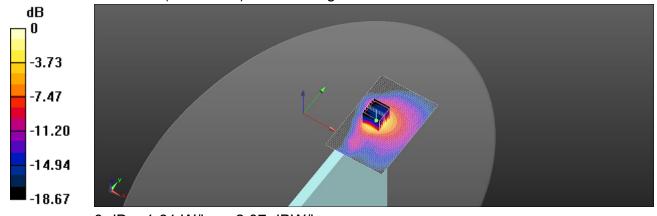
Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.333 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 65.8%

Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg = 2.07 dBW/kg

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Date: 2025/1/15

ID: 016

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.3G Body Front Edge of Laptop CH 58 0mm Main

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

Medium parameters used: f = 5290 MHz; $\sigma = 4.856 \text{ S/m}$; $\epsilon r = 35.787$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(6.25, 5.72, 5.98) @ 5290 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

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

Reference Value = 11.38 V/m; Power Drift = -0.16 dB

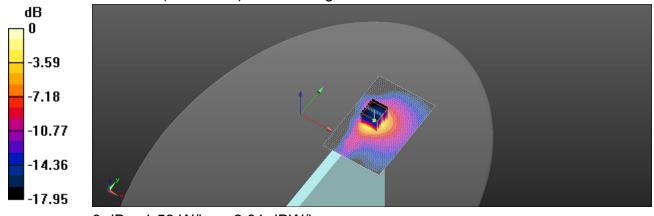
Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.342 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 65.3%

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



0 dB = 1.59 W/kg = 2.01 dBW/kg

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Date: 2025/1/15

ID: 017

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.6G_Body_Front Edge of Laptop_CH 138_0mm_Main

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

Medium parameters used: f = 5690 MHz; σ = 5.293 S/m; ϵ r = 35.375; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(5.81, 5.32, 5.56) @ 5690 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x71x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 14.64 V/m; Power Drift = -0.10 dB

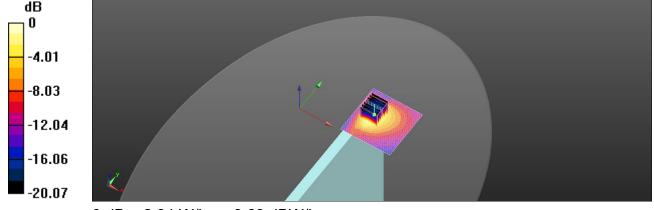
Peak SAR (extrapolated) = 3.62 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.474 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 60.1%

Maximum value of SAR (measured) = 2.34 W/kg



0 dB = 2.34 W/kg = 3.69 dBW/kg

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Date: 2025/1/15

ID: 018

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.8G Body Front Edge of Laptop CH 155 0mm Main

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

Medium parameters used: f = 5775 MHz; $\sigma = 5.38 \text{ S/m}$; $\epsilon r = 35.258$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.81, 5.32, 5.56) @ 5775 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.05 W/kg

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

Reference Value = 15.13 V/m; Power Drift = -0.10 dB

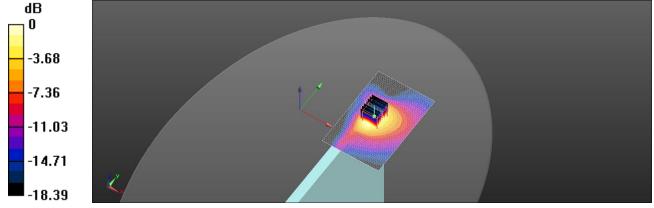
Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.494 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

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



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

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Date: 2025/1/15

ID: 019

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.9G Body Front Edge of Laptop CH 171 0mm Main

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1

Medium parameters used: f = 5855 MHz; $\sigma = 5.475$ S/m; $\epsilon r = 35.114$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.76, 5.28, 5.51) @ 5855 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.06 W/kg

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

Reference Value = 15.29 V/m; Power Drift = -0.08 dB

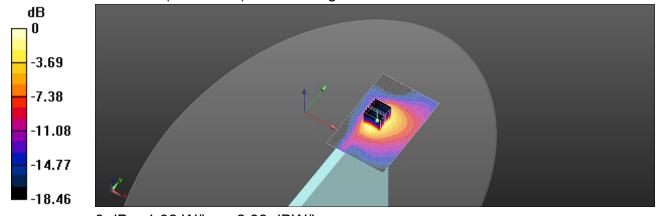
Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.506 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.9%

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.92 W/kg = 2.83 dBW/kg

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Date: 2025/1/14

ID: 020

Report No.: TESA2501000002ES

WLAN 802.11b_Body_Front Edge of Laptop_CH 1_0mm_Aux

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

Medium parameters used: f = 2412 MHz; $\sigma = 1.82 \text{ S/m}$; $\epsilon r = 39.253$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(7.73, 7.08, 7.39) @ 2412 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 19.35 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.531 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

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

Maximum value of SAR (measured) = 1.49 W/kg

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

Reference Value = 19.35 V/m; Power Drift = -0.12 dB

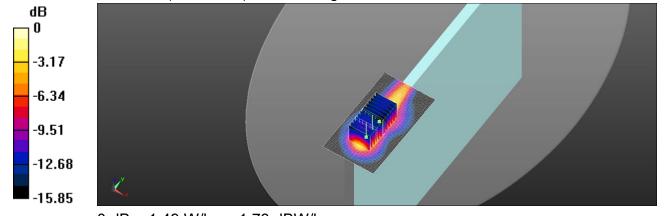
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.429 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 55.4%

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



0 dB = 1.49 W/kg = 1.73 dBW/kg

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Date: 2025/1/14

ID: 021

Report No.: TESA2501000002ES

Bluetooth(GFSK) Body Front Edge of Laptop CH 0 0mm Aux

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1

Medium parameters used: f = 2402 MHz; $\sigma = 1.757 \text{ S/m}$; $\epsilon r = 39.266$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(7.73, 7.08, 7.39) @ 2402 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0812 W/kg

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

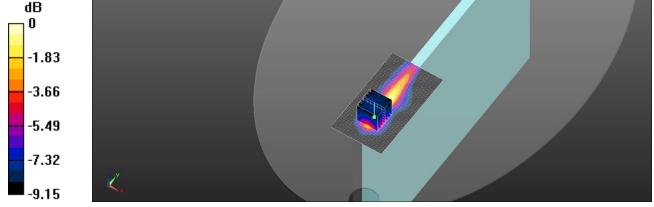
Reference Value = 4.288 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.0910 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.030 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 = 61.2%

Maximum value of SAR (measured) = 0.0739 W/kg



0 dB = 0.0739 W/kg = -11.31 dBW/kg

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Date: 2025/1/15

ID: 022

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.2G Body Front Edge of Laptop CH 42 0mm Aux

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

Medium parameters used: f = 5210 MHz; $\sigma = 4.762 \text{ S/m}$; $\epsilon r = 35.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(6.25, 5.72, 5.98) @ 5210 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 12.00 V/m; Power Drift = -0.15 dB

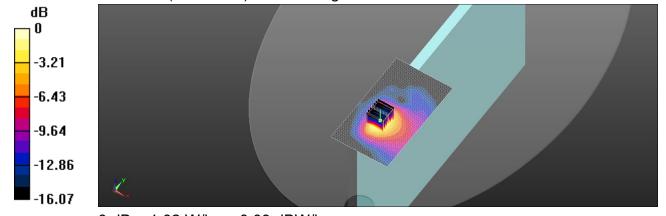
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.238 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 64.7%

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



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2025/1/15

ID: 023

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.3G Body Front Edge of Laptop CH 58 0mm Aux

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

Medium parameters used: f = 5290 MHz; $\sigma = 4.856 \text{ S/m}$; $\epsilon r = 35.787$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 SN7686; ConvF(6.25, 5.72, 5.98) @ 5290 MHz; Calibrated: 2024/10/7
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 11.96 V/m; Power Drift = -0.10 dB

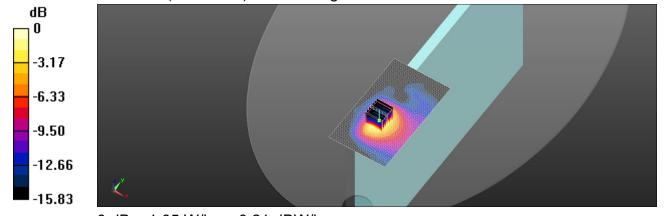
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.257 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 64.7%

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



0 dB = 1.05 W/kg = 0.21 dBW/kg

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Date: 2025/1/15

ID: 024

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.6G Body Front Edge of Laptop CH 138 0mm Aux

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

Medium parameters used: f = 5690 MHz; $\sigma = 5.293 \text{ S/m}$; $\epsilon r = 35.375$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.81, 5.32, 5.56) @ 5690 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.83 W/kg

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

Reference Value = 13.99 V/m; Power Drift = -0.14 dB

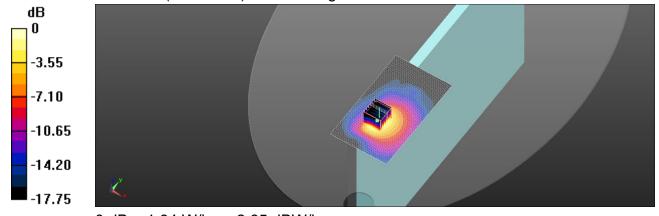
Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.429 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 1.84 W/kg



0 dB = 1.84 W/kg = 2.65 dBW/kg

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Date: 2025/1/15

ID: 025

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.8G Body Front Edge of Laptop CH 155 0mm Aux

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

Medium parameters used: f = 5775 MHz; $\sigma = 5.38 \text{ S/m}$; $\epsilon r = 35.258$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.81, 5.32, 5.56) @ 5775 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.81 W/kg

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

Reference Value = 13.51 V/m; Power Drift = -0.15 dB

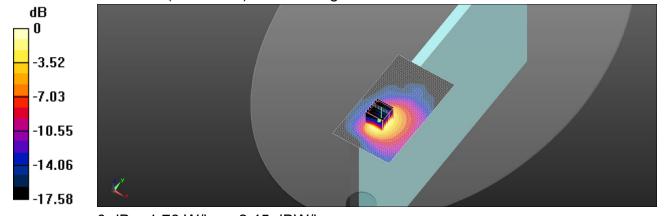
Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.413 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

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

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



0 dB = 1.76 W/kg = 2.45 dBW/kg

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Date: 2025/1/15

ID: 026

Report No.: TESA2501000002ES

WLAN 802.11ac(80M) 5.9G Body Front Edge of Laptop CH 171 0mm Aux

Communication System: WLAN; Frequency: 5855 MHz; Duty cycle= 1:1

Medium parameters used: f = 5855 MHz; $\sigma = 5.475$ S/m; $\epsilon r = 35.114$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.76, 5.28, 5.51) @ 5855 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.49 W/kg

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

Reference Value = 12.25 V/m; Power Drift = -0.13 dB

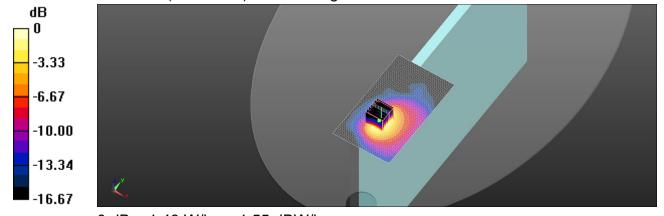
Peak SAR (extrapolated) = 2.64 W/kg

SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.341 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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12 SAR SYSTEM CHECK RESULTS

Date: 2025/1/14

Report No. :TESA2501000002ES

Dipole 2450 MHz SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.846 \text{ S/m}$; $\epsilon r = 39.137$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(7.73, 7.08, 7.39) @ 2450 MHz; Calibrated: 2024/10/7

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2024/2/15
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 99.53 V/m; Power Drift = -0.05 dB

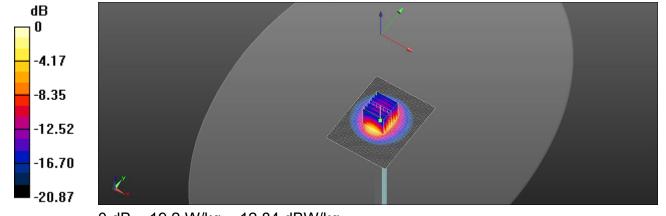
Peak SAR (extrapolated) = 25.7 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.21 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.6%

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



0 dB = 19.2 W/kg = 12.84 dBW/kg

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Date: 2025/1/15

Report No.: TESA2501000002ES Dipole 5250 MHz_SN:1349

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used: f = 5250 MHz; $\sigma = 4.825 \text{ S/m}$; $\epsilon r = 35.813$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(6.25, 5.72, 5.98) @ 5250 MHz; Calibrated: 2024/10/7

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2024/2/15

Phantom: ELI

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

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 81.21 V/m; Power Drift = -0.03 dB

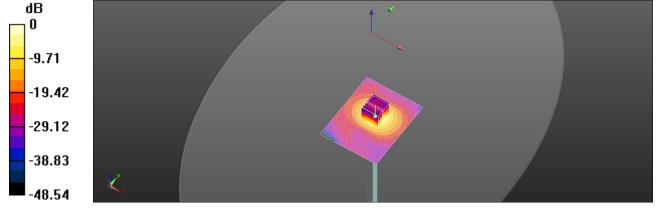
Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

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

Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.11 dBW/kg

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Date: 2025/1/15

Report No. :TESA2501000002ES Dipole 5600 MHz_SN:1349

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used: f = 5600 MHz; $\sigma = 5.188 \text{ S/m}$; $\epsilon r = 35.416$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.68, 5.20, 5.44) @ 5600 MHz; Calibrated: 2024/10/7

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2024/2/15

Phantom: ELI

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

Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 77.03 V/m; Power Drift = 0.10 dB

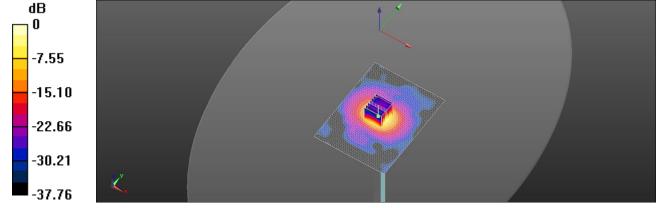
Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.37 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

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



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

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Date: 2025/1/15

Report No. :TESA2501000002ES Dipole 5750 MHz_SN:1349

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used: f = 5750 MHz; $\sigma = 5.348 \text{ S/m}$; $\epsilon r = 35.353$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.81, 5.32, 5.56) @ 5750 MHz; Calibrated: 2024/10/7

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2024/2/15

Phantom: ELI

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

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

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

Reference Value = 73.72 V/m; Power Drift = -0.08 dB

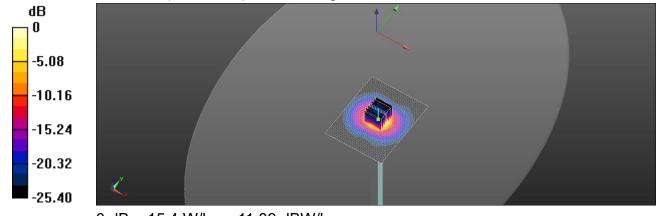
Peak SAR (extrapolated) = 31.7 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 15.4 W/kg



0 dB = 15.4 W/kg = 11.89 dBW/kg

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Date: 2025/1/15

Report No.: TESA2501000002ES Dipole 5850 MHz_SN:1349

Communication System: CW; Frequency: 5850 MHz; Duty cycle= 1:1

Medium parameters used: f = 5800 MHz; $\sigma = 5.457 \text{ S/m}$; $\epsilon r = 35.114$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN7686; ConvF(5.76, 5.28, 5.51) @ 5850 MHz; Calibrated: 2024/10/7

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2024/2/15

Phantom: ELI

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

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.9 W/kg

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

Reference Value = 69.12 V/m; Power Drift = -0.04 dB

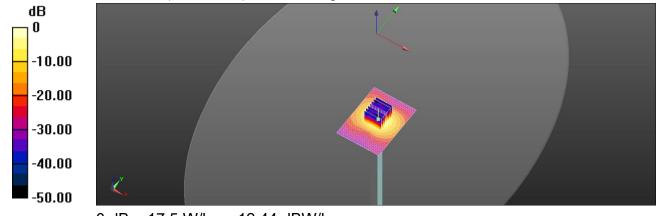
Peak SAR (extrapolated) = 42.9 W/kg

SAR(1 g) = 8.36 W/kg; SAR(10 g) = 2.38 W/kg

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

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

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



0 dB = 17.5 W/kg = 12.44 dBW/kg

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Refer to separated files for the following appendixes.

- 13.1 SAR_Appendix A Photographs
- 13.2 SAR Appendix B DAE & Probe Cal. Certificate
- 13.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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