

TEST REPORT

Eurofins KCTL Co.,Ltd.

65. Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311

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KCTL

1. Client

Name

: Samsung Electronics Co., Ltd.

Address

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677

Rep. of Korea

Date of Receipt

: 2024-04-02

2. Use of Report

: Certification

3. Name of Product and Model

: Smart Wearable

Model Number

: SM-L300

Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / VIETNAM

4. FCC ID

: A3LSML300

5. Date of Test

: 2024-04-13 ~ 2024-04-16

6. Location of Test

■ Permanent Testing Lab □ On Site Testing

(Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

7. Test Standards

: IEEE 1528-2013, ANSI/IEEE C95.1, KDB Publication

8. Test Results

: Refer to the test result in the test report

Tested by

Technical Manager

Affirmation

Name: Mungi Jeong

Name: Jongwon Ma

2024-04-26

Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2024-04-26	Originally issued	-

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1. General information

Client : Samsung Electronics Co., Ltd.

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Rep. of Korea

Manufacturer : Samsung Electronics Co., Ltd.

Address 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,

Rep. of Korea

Factory : AG TECH CO.,LTD

Address Lot G3, Que Vo Industrial Park(Expanded Area), Nam son Ward, Bac Ninh

Province, Vietnam

Factory : ALMUS VINA

Address Lot CN07A, Phu Ha Industrial Park, Ha Thach Commune, Phu Tho Town, Phu

Tho Province, Vietnam

Laboratory : Eurofins KCTL Co.,Ltd.

Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132

VCCI Registration No.: R-3327, G-198, C-3706, T-1849

CAB Identifier: KR0040, ISED Number: 8035A

KOLAS No.: KT231

1.1 Report Overview

This report details the results of testing carried out on the samples listed in section 2, 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 test report is used in any configuration other than that detailed in the test report, the manufacturer must ensure the new configuration complies with all relevant standards and certification requirements. Any mention of Eurofins KCTL Co.,Ltd. Wireless lab or testing done by Eurofins KCTL Co.,Ltd. Wireless lab made in connection with the distribution or use of the tested product must be approved in writing by Eurofins KCTL Co.,Ltd. Wireless lab.

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2. Device information

2.1 Basic description

Product Name		Smart Wearable			
Product Model Number		SM-L300			
Product Mar	nufacturer	Samsung Electronics	Co., Ltd		
Product	Radiation	R3AX300W5BM, R3A	AX300W58L, R3AX300)W5KD	
Serial	Radiation	R3AX300W5FF			
Number	Conduction	R3AX300W5CJ, R3A	R3AX300W5CJ, R3AX300W5DH		
Mode of Operation		WLAN 2.4/5 GHz, Bluetooth, NFC(Only RX)			
		Band & Mode	Operating Modes	Tx Frequency(MHz)	
		WLAN 2.4 GHz	Voice/Data	2 412.0 ~ 2 472.0	
		U-NII-1	Voice/Data	5 180.0 ~ 5 240.0	
Tx Freq. Ra	nge	U-NII-2A	Voice/Data	5 260.0 ~ 5 320.0	
		U-NII-2C	Voice/Data	5 500.0 ~ 5 720.0	
		U-NII-3	Voice/Data	5 745.0 ~ 5 825.0	
		Bluetooth	Data	2 402.0 ~ 2 480.0	
TDWR Infor	mation	5.60 GHz~ 5.65 GHz band (TDWR) is supported by the device.			

2.2 Summary of SAR Test Results

		Highest Reported		
Band	Equipment Class	1g SAR (W/kg)	10g SAR (W/kg)	
		Next to Mouth Extremity		
WLAN 2.4 GHz	DTS	0.31	< 0.10	
U-NII-2A	NII	< 0.10	0.12	
U-NII-2C	NII	< 0.10	0.25	
U-NII-3	NII	< 0.10	0.25	
Bluetooth	Bluetooth DSS		< 0.10	
Simultaneous SAR per	r KDB 690783 D01v01r03	0.29	0.33	

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2.3 #Antenna information

Band	WLAN 2.4 GHz / Bluetooth	UNII-1	UNII-2A	UNII-2C	UNII-3
Antenna Type	LDS				
Peak gain (dBi)	-9.1	-6.1	-5.6	-7.4	-6.9

2.4 #Maximum Tune-up power

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for U NII band 2A is ≤ 1.2W/kg, SAR is not required for U-NII-1 band for that configuration; otherwise, each band is tested independently for SAR.

2.4.1 #Maximum WLAN and Bluetooth Output Power

Dand	Mada	Channel	Output Power (dBm)		
Band	Mode	Channel	Targ <mark>et</mark>	Max. Allowed	
	000 11h	1~11	17.0 <mark>0</mark>	18.00	
	802.11b	12, 13	8.00	9.00	
WLAN 2.4 GHz NII	000 44 =	1~11	16.00	17.00	
	802.11g	12,13	8.00	9.00	
	802.11n(HT20)	1~11	16.00	17.00	
		12	8.00	9.00	
		13	7.00	8.00	
	802.11a	All Channel	16.00	17.00	
	802.11n(HT20)	All Channel	16.00	17.00	

Band	Mada	Channel	Output Power (dBm)		
	Mode	Channel	Target	Max. Allowed	
Bluetooth	BDR(GFSK)	All Channel	17.00	18.00	
	EDR (π/4DQPSK)	All Channel	11.00	12.00	
	EDR(8DPSK)	All Channel	11.00	12.00	
	LE(GFSK)	All Channel	8.00	9.00	

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2.5 #DUT Antenna Locations

A diagram showing the location of the device antennas can be found in Appendix C.

	Device	Edge for SAR Testing (From	nt View)		
Band	Next to Mouth	Extremity	Edmo		
	Front (10mm)	Rear (0mm)	Edge		
WLAN	Yes	Yes	N/A		
Bluetooth	Yes	Yes	N/A		

2.6 #Simultaneous Transmission Configurations

According to FCC KDB 447498 D04v01, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 procedures.

No	Canavia	RF Exposure Condition		
No.	Scenario	Next to Mouth	Extremity	
1.	2.4 GHz Bluetooth + WLAN 5 GHz	Ye	es	
2.	WLAN 2.4 GHz + 2.4 GHz Bluetooth	N	0	
3.	WLAN 2.4 GHz + WLAN 5 GHz (RSDB Scenario)			

Notes:

- It does not transmit simultaneously the Bluetooth and 2.4 GHz WLAN.
- It is to use the Bluetooth and 2.4 GHz WLAN same antenna path.

2.7 SAR Test Methods and Procedures

The tests documented in this report were performed in accordance with IEEE 1528-2013 and the following published KDB procedures:

- IEEE 1528-2013
- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D04 General RF Exposure Guidance v01
- 865664 D01 SAR measurement 100 Mb to 6 Gb v01r04
- 865664 D02 RF Exposure Reporting v01r02
- April 2019 TCB Workshop Notes (Tissue Simulating Liquids)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)

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Specific Absorption Rate

3.1 Introduction

The SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational / controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2 **SAR Definition**

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific head capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

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4. SAR Measurement Procedures

4.1 SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan & Zoom Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot and Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing1 g and 10 g of simulated tissue. If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly. Area Scan & Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.

			≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm ± 1 mm	½·δ·ln(2) mm 0.5 mm	
Maximum probe angle f normal at the measuren	rom probe a	xis to phantom surface	30° ± 1°	20° ± 1°	
			≤ 2 GHz: ≤ 15 mm	3 – 4 GHz: ≤ 12 mm	
			2 – 3 GHz: ≤ 1 <mark>2 mm</mark>	4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with a least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm	3 – 4 GHz: ≤ 5 mm*	
Waximum 200m Scan Sp	Jaliai 1650iu	IIOΠ. ΔΧΖοοm, ΔΥΖοοm	2 – 3 GHz: ≤ 5 mm*	4 – 6 GHz: ≤ 4 mm*	
				3 – 4 GHz: ≤ 4 mm	
	uni	form grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	4 – 5 GHz: ≤ 3 mm	
Maximum zoom scan			5 – 6 GHz: ≤ 2 mm		
spatial resolution, normal to phantom		Δz _{Zoom} (1): between 1st		3 – 4 GHz: ≤ 3 mm	
surface	graded	two points closest to	≤ 4 mm	4 – 5 GHz: ≤ 2.5 mm	
	grid	phantom surface		5 – 6 GHz: ≤ 2 mm	
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·∆z _{Zoom} (n-1) mm		
				3 – 4 GHz: ≥ 28 mm	
Minimum zoom scan volume		x, y, z	≥ 30 mm	4 – 5 GHz: ≥ 25 mm	
7.5.5.110				5 – 6 GHz: ≥ 22 mm	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

^{*} When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 447498 is \leq 1.4 W/kg, \leq 8 mm, \leq 7 mm and \leq 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

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5. SAR Measurement Configurations

5.1 Watch-Device

Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to mouth. Next to the mouth exposure requires 1g SAR, and the wrist-worn condition requires 10g extremity SAR. Next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. SAR for wrist exposure is evaluated with the back of the devices positioned in direct contact against a flat phantom fill with head tissue-equivalent medium.

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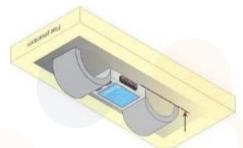


Figure 1
Test position for extremity

5.2 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\varepsilon = 3$ and loss tangent $\delta = 0.02$

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RF Exposure Limits

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Uncontrolled Controlled Environment **Human Exposure Environment General Population Occupational** Partial Peak SAR 1) 1.60 mW/g 8.00 mW/g (Partial) Partial Average SAR 2) $0.08 \, \text{mW/g}$ 0.40 mW/g(Whole Body) Partial Peak SAR 3) 4.00 mW/g 20.00 mW/g (Hands/Feet/Ankle/Wrist)

- 1) The spatial Peak value of the SAR averaged over any 1g gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- 2) The spatial Average value of the SAR averaged over the whole body.
- 3) The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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7. FCC SAR General Measurement Procedures

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. Test highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 SAR Testing with 802.11 Transmitters

The normal network operating configurations are not suitable for measuring the SAR of 802.11 a/b/g transmitters. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable.

7.2.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 – 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.2.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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7.2.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47-5.85~GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60-5.65~GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. When band gap channels are disabled, each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency point requirements.

7.2.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.

7.2.5 2.4 🕮 SAR Test Requirement

SAR is measured for 2.4 6Hz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following.

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel; i.e., all channels require testing.
- 2.4 6Hz 802.11g/n OFDM are additionally evaluated for SAR if highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 6Hz band, the Initial Test Configuration Procedures should be followed.

7.2.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 6Hz and 5 6Hz band, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel band width, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

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7.2.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 and 5 6Hz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output power is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is \leq 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is \leq 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements.

7.2.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8. RF Average Conducted Output Power

8.1 WLAN Average Conducted Output Power

Band	F	Channal		Mode		
Band	Freq. [MHz]	Channel	802.11b	802.11g	802.11n(HT20)	
	2 412.0	1	17.38	16.45	16.31	
	2 437.0	6	17.25	16.32	16.30	
WLAN 2.4 GHz	2 462.0	11	17.24	16.17	16.19	
	2 467.0	12	8.18	8.05	7.96	
	2 472.0	13	7.64	7.66	6.83	
Band	Eron [WII-]	Channel		Mode		
Бапи	Freq. [MHz]	Channel	802.11a		802.11n(HT20)	
	5 180.0	36	15.23		15.36	
	5 200.0	40	15.21		15.12	
	5 220.0	44	15.10		15.07	
	5 240.0	48	15.72		15.52	
	5 260.0	52	15.68		15.65	
	5 280.0	56	15.53		15.22	
	5 300.0	60	15.64		15.45	
NII	5 320.0	64	15.32		15.84	
	5 500.0	100	15.25		15.29	
	5 600.0	120	15.17		15.40	
	5 620.0	124	15.89		15.74	
	5 720.0	144	16.05		15.98	
	5 745.0	149	16.10		15.97	
	5 785.0	157	16.04		16.05	
	5 825.0	165	15.72		15.74	

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

Power Measurement Setup	

Spectrum Analyzer

EUT

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Bluetooth Average Conducted Output Power 8.2

Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)
DDD D115	2 402.0	0	16.51
BDR_DH5 (1 Mbps)	2 441.0	39	16.57
(1 Mbp3)	2 480.0	78	16.85
	2 402.0	0	10.64
BDR_2-DH5 (2 Mbps)	2 441.0	39	10.71
(Z 1416P3)	2 480.0	78	10.95
EDD 0 DUE	2 402.0	0	10.74
EDR_3-DH5 (3 Mbps)	2 441.0	39	10.80
(3 Mbp3)	2 480.0	78	10.93
	2 402.0	0	8.25
LE (1 Mbps 37)	2 440.0	19	8.40
(1 Mbp3 31)	2 480.0	39	7.75
	2 402.0	0	8.23
LE (1 Mbps 255)	2 440.0	19	8.38
(1 Mbp3 233)	2 480.0	39	7.71
. –	2 402.0	0	8.26
LE (2 Mbps 37)	2 440.0	19	8.42
(Z MDP3 37)	2 480.0	39	7.78
	2 402.0	0	8.25
LE (2 Mbps 255)	2 440.0	19	8.41
(Z IVIDPS 200)	2 480.0	39	7.76

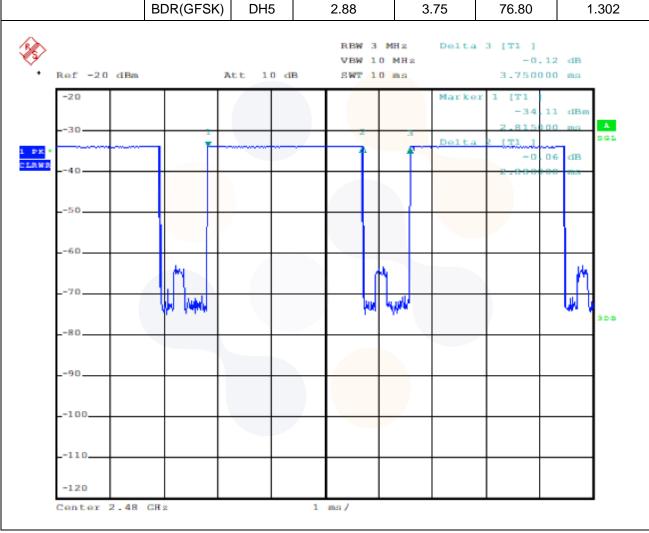
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8.3 Wireless Band Duty Cycle

Wireless Bands	Frequency	Bands	Mod	е	Duty Cycle (%)		
WLAN	2.4 G	l z	802.1	1b	98.36		
VVLAIN	NII		802.1	1a	9	1.26	
Bluetooth	Mode	Packet	On Time (ms)	On-Off Time (ms)	Duty Cycle (%)	Duty Cycle Compensate Factor	
	BDR(GFSK)	DH5	2.88	3.75	76.80	1.302	



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System Verification

9.1 Measurement date and environment

		Environment					
Shield room	Date	Temperature (°C)	Humidity (%)				
8F - 4	2024-04-16	22.3 ~ 22.5	57.8 ~ 58.2				
0Г 7	2024-04-13	22.4 ~ 22.9	54.1 ~ 55.8				
8F - 7	2024-04-15	22.1 ~ 22.6	56.4 ~ 58.2				

9.2 Tissue Verification

The dielectric properties for this Tissue Simulant Liquids were measured by using the SPEAG Model DAK3.5 Dielectric Probe in conjunction with Agilent E5071B Network Analyzer (300 kHz – 8 500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in Table 1.For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Liquids was (22 ± 2) °C.

Date	Freq.	Recommended I	Recommended Limit / Measured				
	(MHz)	Permittivity (ρ)	Conductivity (σ)	22 ± 2			
2024-04-15		39.20 ± 5 % (37.24~41.16)	1.80 ± 5 % (1.71~1.89)	22.07			
	2 450.0	37.80	1.84				
2024-04-16	2 430.0	39.20 ± 5 % (37.24~41.16)	1.80 ± 5 % (1.71~1.89)	21.27			
		38.13	1.82				
2024-04-13	5 250.0	35.95 ± 5 % (34.15~37.75)	4.71 ± 5 % (4.47~4.95)				
		35.50	4.62				
2024-04-13	5 600.0	35.50 ± 5 % (33.73~37.28)	5.07 ± 5 % (4.82~5.32)	22.24			
		34.50	5.11				
2024-04-13	5 800.0	35.30 ± 5 % 5.27 ± 5 % (33.54~37.07) (5.01~5.53)					
		34.30	5.34				

<Table 1.Measurement result of Tissue electric parameters>

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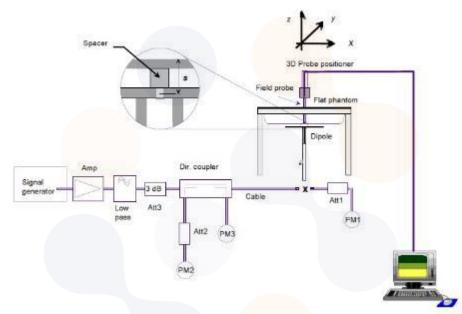
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9.3 Test System Verification

The microwave circuit arrangement for system verification is sketched below picture. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within \pm 10% from the t arget SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the Table 2. During the tests, the ambient temperature of the laboratory was in the range (22 \pm 2) °C, the relative humidity was in the range(50 \pm 20)% and the liquid depth Above the ear/grid reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



Varification	Drobo	Fraguency	Tiggue			easured ed to 1 W)
Verification Kit	Probe S/N	Frequency (Mt)	Tissue Type	Date	Recommended Limit 1g (Normalized)	Recommended Limit 10g (Normalized)
D2450V2 SN: 895	EX3DV4 SN: 7840			Measured	52.20 ± 10 % (46.98~57.42)	24.70 ± 10 % (22.23~27.17)
SIN. 093	SIN. 7040	2 450.0	HSL	2024-04-15	54.70	25.40
D2450V2 SN: 895	EX3DV4 SN: 3928			2024-04-16	53.00	24.90
D5GHzV2 SN: 1134	EX3DV4 SN: 7840	5 250.0	HSL	Measured	79.00 ± 10 % (71.10~86.90)	22.80 ± 10 % (20.52~25.08)
SIN. 1134	SIN. 7040			2024-04-13	79.00	22.80
D5GHzV2 SN: 1134	EX3DV4 SN: 7840	5 600.0	HSL	Measured	82.40 ± 10 % (74.16~90.64)	23.70 ± 10 % (21.33~26.07)
SIN. 1134	SIN. 7040			2024-04-13	84.70	24.50
D5GHzV2 SN: 1134	EX3DV4 SN: 7840	5 800.0	HSL	Measured	78.60 ± 10 % (70.74~86.46)	22.40 ± 10 % (20.16~24.64)
SIN. 1134	SIN. 7640			2024-04-13	80.50	23.30

<Table 2. System Verification>

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10. SAR Test Results

	WLAN 2.4 GHz											
Next to Mouth												
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg	Reported 1g SAR (W/kg)	Plot No.		
Front	802.11b	10	2 412.0	17.38	18.00	1.153	1.017	0.267	0.313	1		
Extremity												
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor			Plot No.		
Rear	802.11b	0	2 412.0	17.38	18. <mark>00</mark>	1.153	1.017	0.066	0.077	2		

	U-NII-2A											
Next to Mo	Next to Mouth											
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor		Reported 1g SAR (W/kg)	Plot No.		
Front	802.11a	10	5 260.0	15.68	17.00	1.355	1.096	0.011	0.016	3		
Extremity												
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor			Plot No.		
Rear	802.11a	0	5 260.0	15.68	17.00	1.355	1.096	0.079	0.117	4		

	U-NII-2C												
Next to Mo	Next to Mouth												
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg	Reported 1g SAR (W/kg)	Plot No.			
Front	802.11a	10	5 720.0	16.05	17.00	1.245	1.096	0.012	0.016	5			
Extremity													
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor		•	Plot No.			
Rear	802.11a	0	5 720.0	16.05	17.00	1.245	1.096	0.181	0.247	6			

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	U-NII-3											
Next to Mouth												
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg	Reported 1g SAR (W/kg)	Plot No.		
Front	802.11a	10	5 745.0	16.10	17.00	1.230	1.096	0.002	0.003	7		
Extremity												
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 10 g SAR (W/kg		Plot No.		
Rear	802.11a	0	5 745.0	16.10	17.00	1.230	1.096	0.185	0.249	8		

Bluetoot <mark>h</mark>											
Next to Mouth											
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg	Reported 1g SAR (W/kg)	Plot No.	
Front	DH5	10	2 480.0	16.85	18.00	1.303	1.302	0.160	0.271	9	
Extremity											
EUT Position	Mode	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 10 g SAR (W/kg		Plot No.	
Rear	DH5	0	2 480.0	16.85	18.00	1.303	1.302	0.050	0.085	10	

General Notes:

- 1. According to test procedures specified in IEEE1528-2013 and FCC KDB publication 447498 D04v01, the DUT was tested in all operating configurations, but only worst-case SAR values were reported
- 2. Only standard batteries were used for all tests and fully charged.
- 3. The depth of tissue-equivalent liquids in the phantom was at least 15cm.
- 4. The manufacturer guarantees that the tested devices have same physical, mechanical and thermal characteristics and meet the requirements for expected operational tolerances.
- 5. Measured SAR values were scaled up by applying the power scaling factor to comply FCC KDB publication 447498 D04v01
- 6. The EUT is tested 2nd hot-spot peak, if it is less than 2 dB below the highest peak.
- 7. According to the KDB guidance, a factor of 2.5 was considered for the 10g-Extremity SAR.

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WLAN & Bluetooth Notes:

- 1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.46 WIFI operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.46 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR.
- The device was configured to transmit continuously at the required data rate, channel bandwidth and signal
 modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR
 was scaled to the 100% transmission duty factor to determine compliance.
- 3. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected.
- 4. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure requirements, is adjusted by the ratio of the subsequent test configuration to the initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/Kg, SAR is not required for that subsequent test configuration.
- 5. During the test, the WLAN and Bluetooth transmission were monitored through the spectrum analyzer.

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11. **Simultaneous Transmission**

The following procedures adopted from FCC KDB Publication 447498 D04v01 are applicable to devices with built in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g or 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is within SAR limits. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

11.1 **Simultaneous Transmission Analysis**

Exposure Condition/ /Position		WL	AN	Divoto oth	Summation
		2.4 GHz	5 GHz	Bluetooth	Summation
		[①]	[2]	[3]	[2+3]
Next to Mouth (1 g)	Front	0.313	0.016	0.271	0.287
Extremity (10 g)	Rear	0.077	0.249	0.085	0.334

Notes

Simultaneous transmission SAR test exclusion considerations Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit.

 $[\Sigma 1-g \text{ or } 10-g \text{ SAR} < \text{SAR Limit } (1-g 1.6 \text{ W/kg}, 10-g 4.0 \text{ W/kg})$

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12. SAR Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated
- 3) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Band	Mode	Frequency (Mt)	EUT Position	Separation Distance (mm)	Measured 1 g/ 10g SAR (W/kg)	Measured 1 g/ 10g SAR (W/kg)	Ratio
			N	N/A			

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13. **Measurement Uncertainty**

Per KDB 865664 D01 SAR measurement 100 to 60 when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Standard 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.



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14. Test Equipment Information

Test Platform	SPEAG DASY5/8 Sy	stem						
Manatan	DASY52: 52.10.4.1535 / SEMCAD: 14.6.14 (7501)							
Version	DASY8: 16.2.2.1588							
Location	Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,							
	Korea							
Manufacture	SPEAG							
	Hard	ware Reference						
Equipment	Model	Serial Number	Date of	Due date of				
Ечиричен	Wodel		Calibration	next Calibration				
Shield Room	-	8F - 4	-	-				
	-	8F - 7	-	-				
DASY6 Robot	TX60 Lspeag	F/19/0007289/A/00 1	-	-				
DASY8 Robot	TX2-60L	F/22/0040787/A/00 1	-	-				
Phantom	2mm Oval Phantom ELI5	2098	-	-				
	Twin SAM Phantom	1362	-	-				
Mounting Device	Mounting Device	-	-	-				
•	DAE4	1756	2023-09-20	2024-09-20				
DAE	DAE4	1759	2023-09-20	2024-09-20				
Ducks	EX3DV4	3928	2024-02-22	2025-02-22				
Probe	EX3DV4	7840	2023-08-25	2024-08-25				
ESG Vector Signal Generator	E4438C	MY42080845	2024-02-13	2025-02-13				
Dual Power Meter	E4419B	GB40202503	2023-11-01	2024-11-01				
D C	E9301A	US39210857	2023-11-01	2024-11-01				
Power Sensor	E9301A	MY41499102	2023-11-01	2024-11-01				
	PE7005-10	2228-7	2023-12-11	2024-12-11				
Attenuator	PE7005-10	2228-8	2023-12-11	2024-12-11				
	PE7005-10	2228-9	2023-12-11	2024-12-11				
Directional Coupler	772D	MY46151145	2023-11-01	2024-11-01				
Power Amplifier	AMP2027	10010	2023-04-26	2024-04-26				
Low Pass Filter	PE8725	2144	2023-12-11	2024-12-11				
LOW 1 833 1 III.C.	PE87FL1016	2213	2023-12-11	2024-12-11				
Dipole Validation Kits	D2450V2	895	2023-09-26	2025-09-26				
<u> </u>	D5GHzV2	1134	2024-01-17	2026-01-17				
ENA Series Network Analyzer	E5071B	MY42403524	2024-02-13	2025-02-13				
Dielectric Assessment Kit	DAK-3.5	1078	2023-05-24	2024-05-24				
	MHB-382SD	46301	2024-02-16	2025-02-16				
Humidity/Temp	PC-5400TRH	PC-5400TRH-3	2023-11-06	2024-11-06				
Wideband Radio Communication Tester	CMW500	132423	2024-02-13	2025-02-13				
	FSP7	100289	2023-12-11	2024-12-11				
Spectrum Analyzer	FSV30	100807	2023-07-03	2024-07-03				
Attenuator	40AH2W-10	10	2023-07-04	2024-07-04				
DC Power Supply	E3632A	MY40016393	2023-07-03	2024-07-03				
Power Sensor	NRP-Z81	1137.9009.02- 106225-JM	2023-04-25	2024-04-25				
Attenuator	8491A	29738	2023-10-12	2024-10-12				

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Test System Verification Results

Measurement Report for D2450V2 - SN895, FRONT, D2450, UID 0 -, (2450.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
D2450V2 - SN895,	10.0 x 10.0 x 290.0	895	Validation Dipole	
Speag				

Exposure Conditions

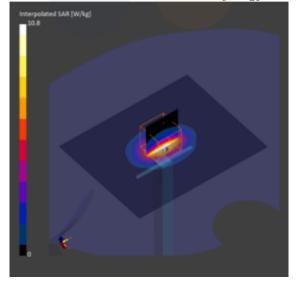
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	D2450	CW,	2450.0	6.8	1.84	37.8
IZH	10.00		0				

Hardware Setup

Phantom	TSL, Measured Date	Pro <mark>be, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-15	08-25	20

Scan Setup

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	96.0 x 120.0	30.0 x 30.0 x		Scan	
[mm]		30.0	Date	2024-	2024-04-15
Grid Steps	12.0 x 12.0	$5.0 \times 5.0 \times 5.0$		04-15	
[mm]			psSAR1g [W/kg]	5.37	5.47
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	2.76	2.81
[mm]			psSAR10g [W/kg]	2.49	2.54
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.5	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection			Power Drift [dB]		-0.02
Scan Method	Measured	Measured	Peak SAR [W/kg]		10.8



65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr Report No.: KR24-SPF0006 Page (28) of (106)



Date: 4/16/2024

Test Laboratory: Eurofins KCTL Co.,Ltd.

File Name: 2450 MHz Verification Input Power 100 mW 2024-04-16.da5:0

DUT: Dipole 2450 MHz D2450V2, Type: D2450V2, Serial: D2450V2 - SN:895

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2450 MHz; $\sigma = 1.821$ S/m; $\varepsilon_r = 38.134$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: EX3DV4 - SN3928;ConvF(7.05, 6.88, 7.61) @ 2450 MHz; Calibrated: 2/22/2024

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1756; Calibrated: 9/20/2023

• Phantom: ELI V8.0_Left; Type: QD OVA 004 Ax; Serial: 2098

• Measurement SW: DASY52, Version 52.10 (4);

Configuration/2450 MHz Verification Input Power 100 mW 2024-04-16/Area Scan (10x11x1):

Measurement grid: dx=12mm, dy=12mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 6.97 W/kg

Configuration/2450 MHz Verification Input Power 100 mW 2024-04-16/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

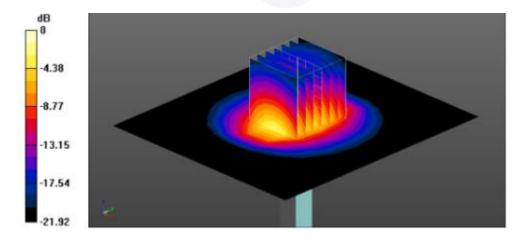
Reference Value = 71.58 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 5.3 W/kg; SAR(10 g) = 2.49 W/kg

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 8.55 W/kg



0 dB = 8.55 W/kg = 9.32 dBW/kg

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Eurofins KCTL Co., Ltd.

Measurement Report for D5GHzV2 - SN1134, FRONT, Custom Band, UID 0 -, (5250.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
D5GHzV2 - SN1134,	10.0 x 10.0 x 300.0	1134	Validation Dipole	
Speag				

Exposure Conditions

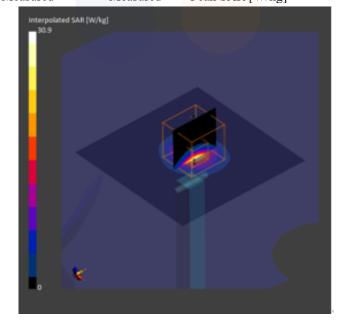
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	Custom	CW,	5250.0,	5.33	4.62	35.5
HSI.	10.00	Rand	0				

Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Measurement Results Scan Setup

•	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	80.0 x 80.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0 x 10.0	4.0 x 4.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	6.97	7.90
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	2.40	2.66
[mm]			psSAR10g [W/kg]	2.07	2.28
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection	•	•	Power Drift [dB]		-0.01
Scan Method	Measured	Measured	Peak SAR [W/kg]		30.9



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Eurofins KCTL Co., Ltd.

Measurement Report for D5GHzV2 - SN1134, FRONT, D5GHz, UID 0 -, (5600.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
D5GHzV2 - SN1134,	10.0 x 10.0 x 300.0	1134	Validation Dipole	
Speag			_	

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	D5GHz	CW,	5600.0	4.59	5.11	34.5
IZH	10.00		0				

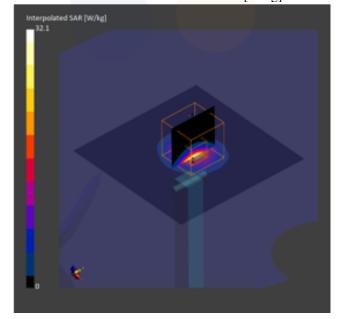
Hardware Setup

Scan Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Measurement Results

-	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	80.0 x 80.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0 x 10.0	4.0 x 4.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	7.65	8.47
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	2.60	2.85
[mm]			psSAR10g [W/kg]	2.24	2.45
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection		·	Power Drift [dB]		-0.03
Scan Method	Measured	Measured	Peak SAR [W/kg]		32.1



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Eurofins KCTL Co.,Ltd.

Measurement Report for D5GHzV2 - SN1134, FRONT, D5GHz, UID 0 -, (5800.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
D5GHzV2 - SN1134,	10.0 x 10.0 x 300.0	1134	Validation Dipole	
Speag			_	

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	D5GHz	CW,	5800.0	4.72	5.34	34.3
HSL	10.00		0				

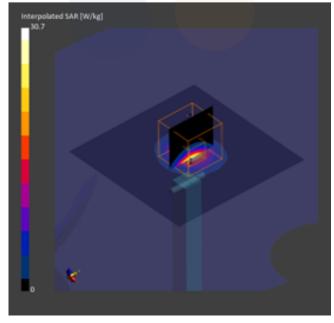
Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Measurement Results

Scan Setup

Scan Scrup	an Setup Wicasurement Results				
	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	80.0 x 80.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0 x 10.0	4.0 x 4.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	7.28	8.05
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	2.45	2.71
[mm]			psSAR10g [W/kg]	2.12	2.33
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection			Power Drift [dB]		-0.01
Scan Method	Measured	Measured	Peak SAR [W/kg]		30.7



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Test Results

Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, FRONT, D2450, UID 0 -, Channel 1 (2412.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type
SM-L300, SAMSUNG	$40.0 \times 40.0 \times 11.0$	R3AX300W58L	Smart Wearable

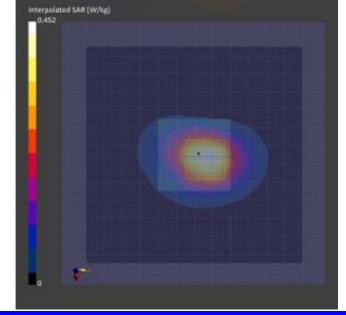
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	D2450	CW,	2412.0,	6.8	1.80	37.9
HSL	10.00		0	1			

Hardware Setup

Phantom	TSL, Measured Date	Prob <mark>e, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN784 <mark>0, 2023-</mark>	DAE4 Sn1759, 2023-09-
	Apr-15	08-25	20

Scan Setup			Measurement Results		
•	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	120.0 x 120.0	30.0 x 30.0 x		Scan	
[mm]		30.0	Date	2024-	2024-04-15
Grid Steps	12.0 x 12.0	$5.0 \times 5.0 \times 5.0$		04-15	
[mm]			psSAR1g [W/kg]	0.258	0.267
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.142	0.150
[mm]			psSAR10g [W/kg]	0.130	0.136
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.5	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection	•	•	Power Drift [dB]		-0.12
Scan Method	Measured	Measured	Peak SAR [W/kg]		0.452



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Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, BACK, D2450, UID 0 -, Channel 1 (2412.0MHz)

Device	under	Test	Pro	perties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W5BM	Smart Wearable	

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D2450	CW,	2412.0,	6.8	1.80	37.9
HSL	0.00		0	1			

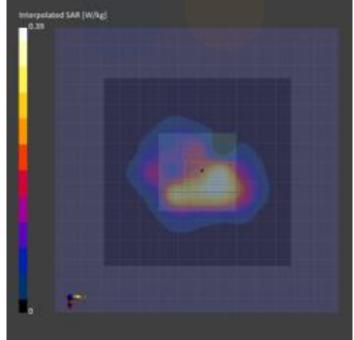
Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024	- EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-15	08-25	20

Measurement Results

Scan Setun

Scan Scrup	Weasti Chieft Results						
	Area Scan	Zoom Scan		Area	Zoom Scan		
Grid Extents	96.0 x 96.0	30.0 x 30.0 x		Scan			
[mm]		30.0	Date	2024-	2024-04-15		
Grid Steps	12.0 x 12.0	5.0 x 5.0 x 1.5		04-15			
[mm]			psSAR1g [W/kg]	0.144	0.149		
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.077	0.072		
[mm]			psSAR10g [W/kg]	0.070	0.066		
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A		
Grading Ratio	N/A	1.5	[W/m2]				
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A		
Surface	VMS + 6p	VMS + 6p	[W/m2]				
Detection			Power Drift [dB]		-0.16		
Scan Method	Measured	Measured	Peak SAR [W/kg]		0.389		



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Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, FRONT, D5GHz, UID 0 -, Channel 52 (5260.0MHz)

Device	under Test	Properties
Device	unuci icsi	I I ODEI HES

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W5KD	Smart Wearable	

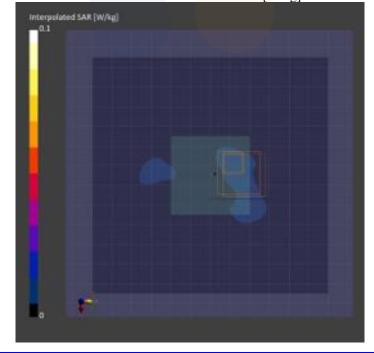
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	D5GHz	CW,	5260.0,	5.33	4.64	35.4
HSL	10.00		0	52			

Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Scan Setup			Measurement Results		
•	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	120.0 x 120.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0×10.0	4.0 x 4.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	0.011	0.011
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.004	0.002
[mm]			psSAR10g [W/kg]	0.004	0.001
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection	•	•	Power Drift [dB]		0.17
Scan Method	Measured	Measured	Peak SAR [W/kg]		0.061



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Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, BACK, D5GHz, UID 0 -, Channel 52 (5260.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W5KD	Smart Wearable	

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D5GHz	CW,	5260.0,	5.33	4.64	35.4
HSL	0.00		0	52			

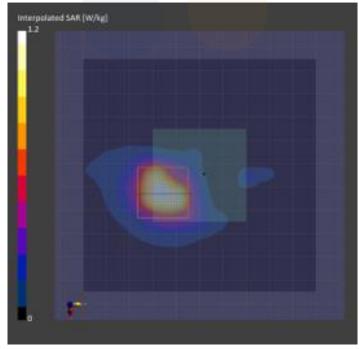
Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Measurement Results

Scan Setup

Scan Scrup			Wicasui Ciliciit ixcsuits		
	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	100.0 x 100.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0×10.0	3.0 x 3.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	0.222	0.262
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.087	0.091
[mm]			psSAR10g [W/kg]	0.077	0.079
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection			Power Drift [dB]		0.11
Scan Method	Measured	Measured	Peak SAR [W/kg]		1.20



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Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, FRONT, D5GHz, UID 0 -, Channel 144 (5720.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W58L	Smart Wearable	

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	D5GHz	CW,	5720.0,	4.72	5.26	34.4
HSL	10.00		0	144			

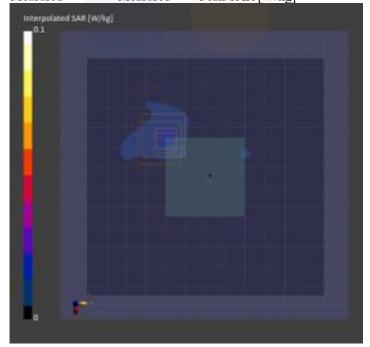
Hardware Setup

Scan Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Measurement Results

•	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	120.0 x 120.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0 x 10.0	4.0 x 4.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	0.015	0.012
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.006	0.003
[mm]			psSAR10g [W/kg]	0.005	0.002
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection	•		Power Drift [dB]		0.16
Scan Method	Measured	Measured	Peak SAR [W/kg]		0.089



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Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, BACK, D5GHz, UID 0 -, Channel 144 (5720.0MHz)

Device	under '	Test	Pron	erties
Device	unuci	LCSL		CI LICS

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W5BM	Smart Wearable	

Exposure Conditions

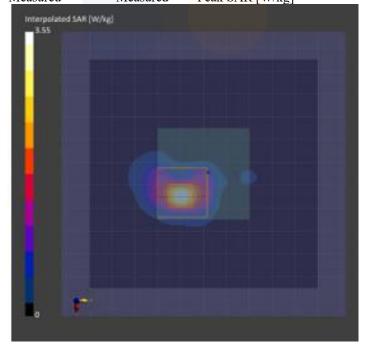
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	D5GHz	CW,	5720.0,	4.72	5.26	34.4
HSL	0.00		0	144			

Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Scan Setun

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	100.0 x 100.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0×10.0	3.0 x 3.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	0.652	0.620
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.214	0.207
[mm]			psSAR10g [W/kg]	0.186	0.181
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection			Power Drift [dB]		0.03
Scan Method	Measured	Measured	Peak SAR [W/kg]		3.55



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7) Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, FRONT, Custom Band, UID 0 -, Channel 149 (5745.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W58L	Smart Wearable	

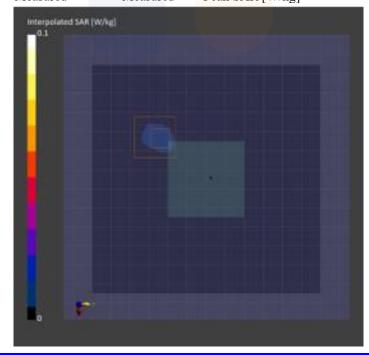
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT,	Custom	CW,	5745.0,	4.72	5.27	34.4
HSL	10.00	Rand	0	149			

Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024-	EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-
	Apr-13	08-25	20

Scan Setup			Measurement Results		
	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	120.0 x 120.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0×10.0	4.0 x 4.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	0.01	0.002
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.004	0
[mm]			psSAR10g [W/kg]	0.003	0
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection			Power Drift [dB]		0.00
Scan Method	Measured	Measured	Peak SAR [W/kg]		0.069



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Eurofins KCTL Co.,Ltd.

Measurement Report for SM-L300, BACK, Custom Band, UID 0 -, Channel 149 (5745.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	Serial Number	DUT Type	
SM-L300, SAMSUNG	40.0 x 40.0 x 11.0	R3AX300W58L	Smart Wearable	

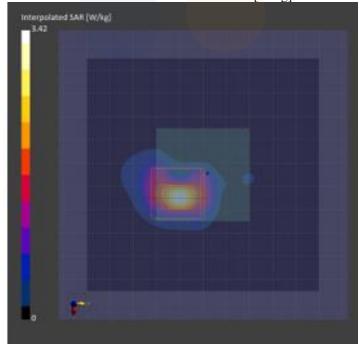
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	BACK,	Custom	CW,	5745.0,	4.72	5.27	34.4
HSL	0.00	Band	0	149			

Hardware Setup

Phantom	TSL, Measured Date	Pr <mark>obe, Calibrati</mark> on Date	DAE, Calibration Date	
Twin-SAM V4.0 - 1362	HBBL-600-10000 , 2024	- EX3DV4 - SN7840, 2023-	DAE4 Sn1759, 2023-09-	
	Apr-13	08-25	20	

Scan Setup			Measurement Results		
•	Area Scan	Zoom Scan		Area	Zoom Scan
Grid Extents	100.0 x 100.0	24.0 x 24.0 x		Scan	
[mm]		22.0	Date	2024-	2024-04-13
Grid Steps	10.0×10.0	3.0 x 3.0 x 1.4		04-13	
[mm]			psSAR1g [W/kg]	0.632	0.610
Sensor Surface	3.0	1.4	psSAR8g [W/kg]	0.217	0.212
[mm]			psSAR10g [W/kg]	0.190	0.185
Graded Grid	No	Yes	psAPD (1.0cm2, sq)		N/A
Grading Ratio	N/A	1.4	[W/m2]		
MAIA	N/A	N/A	psAPD (4.0cm2, sq)		N/A
Surface	VMS + 6p	VMS + 6p	[W/m2]		
Detection	•		Power Drift [dB]		0.03
Scan Method	Measured	Measured	Peak SAR [W/kg]		3.42



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9)

Date: 4/16/2024

Test Laboratory: Eurofins KCTL Co.,Ltd.

File Name: 3. SM-L300 Bluetooth_BDR_DH5.da53:0

DUT: SM-L300, Type: Smart Wearable, Serial: R3AX300W5FF

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.30167

Medium parameters used: f = 2480 MHz; $\sigma = 1.846$ S/m; $\varepsilon_r = 38.088$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3928;ConvF(7.05, 6.88, 7.61) @ 2480 MHz; Calibrated: 2/22/2024

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1756; Calibrated: 9/20/2023

• Phantom: ELI V8.0_Left; Type: QD OVA 004 Ax; Serial: 2098

• Measurement SW: DASY52, Version 52.10 (4);

Next to Mouth/Bluetooth_BDR_DH5_CH78_Front_10 mm/Area Scan (9x9x1): Measurement grid:

dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.231 W/kg

Next to Mouth/Bluetooth_BDR_DH5_CH78_Front_10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement

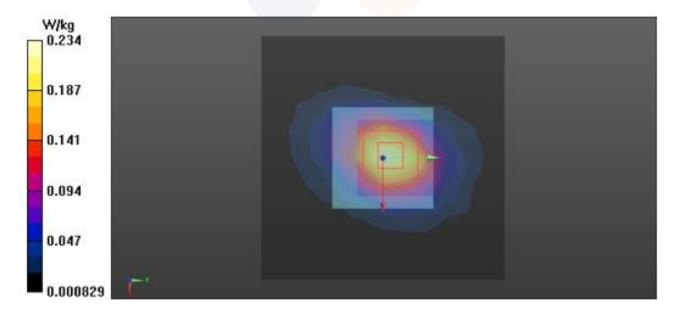
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.75 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.081 W/kg

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



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10)

Date: 4/16/2024

Test Laboratory: Eurofins KCTL Co.,Ltd.

File Name: 3. SM-L300 Bluetooth_BDR_DH5.da53:1

DUT: SM-L300, Type: Smart Wearable, Serial: R3AX300W5FF

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.30167

Medium parameters used: f = 2480 MHz; $\sigma = 1.846 \text{ S/m}$; $\varepsilon_r = 38.088$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3928;ConvF(7.05, 6.88, 7.61) @ 2480 MHz; Calibrated: 2/22/2024

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1756; Calibrated: 9/20/2023

• Phantom: ELI V8.0_Left; Type: QD OVA 004 Ax; Serial: 2098

• Measurement SW: DASY52, Version 52.10 (4);

Extremity/Bluetooth_BDR_DH5_CH78_Rear_0 mm/Area Scan (9x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.150 W/kg

Extremity/Bluetooth_BDR_DH5_CH78_Rear_0 mm/Zoom Scan (9x8x7)/Cube 0: Measurement grid:

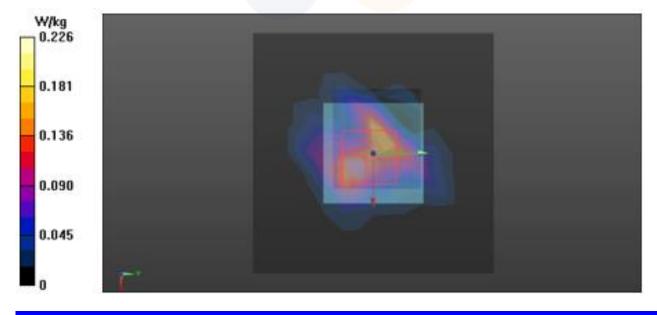
dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.171 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.315 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.050 W/kg

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



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Appendixes List

	A.1 Probe Calibration certificate (EX3DV4_3928)		
Appendix A	A.2 Probe Calibration certificate (EX3DV4_7840)		
	A.3 Dipole Calibration certificate (D2450V2_895)		
	A.4 Dipole Calibration certificate (D5GHzV2_1134)		
Appendix B	SAR Tissue Specification		
Appendix C	#Antenna Location & Distance		
Appendix D	EUT Photo		
Appendix E	Test Setup Photo		