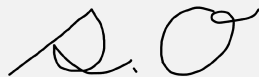


RF EXPOSURE TEST REPORT

Test Report No. 16113913S-A-R1

Customer	Canon Inc.
Description of EUT	Communication Module
Model Number of EUT	ES206
FCC ID	AZD257
Test Regulation	FCC 47CFR 2.1093
Test Result	Complied
Issue Date	June 19, 2026
Remarks	-

Representative Test Engineer



Akihiro Oda
Engineer

Approved By



Toyokazu Imamura
Engineer



CERTIFICATE 1266.03

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

Report Cover Page -Form-ULID-003532 (DCS:13-EM-F0429) Issue# 26.0

ANNOUNCEMENT

- This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
- The results in this report apply only to the sample tested. (Laboratory was not involved in sampling.)
- This sample tested is in compliance with the limits of the above regulation.
- The test results in this test report are traceable to the national or international standards.
- This test report must not be used by the customer to claim product certification, approval, or endorsement by the A2LA accreditation body.
- This test report covers RF Exposure technical requirements.
It does not cover administrative issues such as Manual or non-RF Exposure test related Requirements. (if applicable)
- The all test items in this test report are conducted by UL Japan, Inc. Shonan EMC Lab.
- The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan, Inc. has been accredited.
- The information provided by the customer for this report is identified in SECTION 1.
- The laboratory is not responsible for information provided by the customer which can impact the validity of the results.
- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	16113913S-A	March 12, 2026	-
-R1	16113913S-A-R1	June 19, 2026	P6 Replaced "WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20/11n-40/11ac-40/11ax-40/11ac-80/11ax-80)" -> "WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20)" P11 Section 4.2 Added "Front-left" P11 and P22 Replaced Right "123.4 mm" -> "118.4 mm" Bottom "54.25 mm" -> "39.25 mm" P27 Replaced LIMS ID "226380" -> "146235" Serial "3745" -> "3907"

Reference : Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	MRA	Mutual Recognition Arrangement
AC	Alternating Current	MU-MIMO	Multi-User Multiple Input Multiple Output (Radio)
AFH	Adaptive Frequency Hopping	N/A	Not Applicable, Not Applied
AM	Amplitude Modulation	NII	National Information Infrastructure (Radio)
Amp, AMP	Amplifier	NIST	National Institute of Standards and Technology
ANSI	American National Standards Institute	NR	New Radio
Ant, ANT	Antenna	NS	Nerve Stimulation
AP	Access Point	NSA	Normalized Site Attenuation
APD	Absorbed Power Density	NVLAP	National Voluntary Laboratory Accreditation Program
ASK	Amplitude Shift Keying	OBW	Occupied Band Width
Atten., ATT	Attenuator	OFDM	Orthogonal Frequency Division Multiplexing
AV	Average	OFDMA	Orthogonal Frequency Division Multiple Access
BPSK	Binary Phase-Shift Keying	PD	Power Density
BR	Bluetooth Basic Rate	psPD	Peak spatial-average power density
BT	Bluetooth	psPDn+	Surface-normal propagation-direction peak spatial-average power density
BT LE	Bluetooth Low Energy	psPDtot+	Total propagating spatial-average peak power density
BW	BandWidth	psPDmod+	Total peak spatial-average power density considering reactive near-field effects
Cal Int	Calibration Interval	P/M	Power meter
CCK	Complementary Code Keying	PCB	Printed Circuit Board
CDD	Cyclic Delay Diversity	PER	Packet Error Rate
CFR	Code of Federal Regulations	PHY	Physical Layer
Ch., CH	Channel	PK	Peak
CISPR	Comite International Special des Perturbations Radioelectriques	PN	Pseudo random Noise
CW	Continuous Wave	PP	Preamble Puncturing
DBPSK	Differential BPSK	PRBS	Pseudo-Random Bit Sequence
DC	Direct Current	PSD	Power Spectral Density
D-factor	Distance factor	QAM	Quadrature Amplitude Modulation
DFS	Dynamic Frequency Selection	QP	Quasi-Peak
DQPSK	Differential QPSK	QPSK	Quadrature Phase Shift Keying
DSSS	Direct Sequence Spread Spectrum	RAT	Radio Access Technology
DUT	Device Under Test	RBW	Resolution Band Width
EDR	Enhanced Data Rate	RDS	Radio Data System
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	RE	Radio Equipment
EMC	ElectroMagnetic Compatibility	RF	Radio Frequency
EMI	ElectroMagnetic Interference	RMS	Root Mean Square
EN	European Norm	RSS	Radio Standards Specifications
ERP, e.r.p.	Effective Radiated Power	RU	Resource Unit
ETSI	European Telecommunications Standards Institute	Rx	Receiving
EU	European Union	SA, S/A	Spectrum Analyzer
EUT	Equipment Under Test	SAR	Specific Absorption Rate
Fac.	Factor	SDM	Space Division Multiplexing
FCC	Federal Communications Commission	SISO	Single Input Single Output (Radio)
FHSS	Frequency Hopping Spread Spectrum	SG	Signal Generator
FM	Frequency Modulation	sPD	Spatial-average power density
Freq.	Frequency	sPDn+	Surface-normal propagation-direction spatial-average power density
FSK	Frequency Shift Keying	sPDtot+	Total propagating spatial-average power density
GFSK	Gaussian Frequency-Shift Keying	sPDmod+	Total spatial-average power density considering reactive near-field effects
GNSS	Global Navigation Satellite System	SPLSR	SAR to Peak Location Separation Ratio
GPS	Global Positioning System	SVSWR	Site-Voltage Standing Wave Ratio
HE	High Efficiency (e.g. IEEE 802.11ax20HE)	TER	Total Exposure Ratio
HT	High Throughput (e.g. IEEE 802.11n20HT)	TSL	Tissue Simulation Liquid
Hori.	Horizontal	T/R	Test Receiver
ICES	Interference-Causing Equipment Standard	Tx	Transmitting
IEC	International Electrotechnical Commission	U-NII	Unlicensed National Information Infrastructure (Radio)
IEEE	Institute of Electrical and Electronics Engineers	URS	Unintentional Radiator(s)
IF	Intermediate Frequency	VBW	Video BandWidth
ILAC	International Laboratory Accreditation Conference	Vert.	Vertical
IPD	Incident Power Density	VHT	Very High Throughput (e.g. IEEE 802.11ac20VHT)
ISED	Innovation, Science and Economic Development Canada	WLAN	Wireless LAN
ISO	International Organization for Standardization	Wi-Fi, WiFi	Wireless LAN, trademarked by Wi-Fi Alliance
JAB	Japan Accreditation Board	WPT	Wireless Power Transmit
LAN	Local Area Network		
LIMS	Laboratory Information Management System		
MCS	Modulation and Coding Scheme		
MIMO	Multiple Input Multiple Output (Radio)		
MPE	Maximum Permissible Exposure		

CONTENTS

SECTION 1:	Customer information.....	5
SECTION 2:	Equipment under test (EUT).....	5
2.1	Identification of EUT	5
2.2	Product Description	5
SECTION 3:	Maximum SAR value, test specification and procedures.....	8
3.1	Summary of Maximum SAR Value	8
3.2	RF Exposure limit.....	8
3.3	Test specification	9
3.4	Published RF exposure KDB procedures and companion procedures	9
3.5	Additions or Deviations to Standards.....	9
3.6	Test Location	9
3.7	SAR measurement procedure	10
3.7.1	SAR Definition	10
3.7.2	Full SAR measurement procedure	10
SECTION 4:	Operation of EUT during testing	11
4.1	Operating modes for testing	11
4.2	RF exposure conditions (Test exemption considerations)	11
SECTION 5:	Confirmation before testing	13
5.1	Test reference power measurement	13
SECTION 6:	Tissue simulating liquid	17
6.1	Liquid measurement	17
6.2	Target of tissue simulating liquid.....	18
6.3	Simulated tissue composition	18
SECTION 7:	Measurement results	19
7.1	Measurement results	19
7.1.1	SAR measurement results (2.4 GHz band).....	19
7.1.2	SAR measurement results (WLAN 5.2 GHz band).....	19
7.1.3	SAR measurement results (WLAN 5.3 GHz band).....	20
7.1.4	SAR measurement results (WLAN 5.6 GHz band).....	20
7.1.5	SAR measurement results (WLAN 5.8 GHz band).....	21
7.2	Simultaneous transmission (including Co-location) evaluation	21
7.3	SAR Measurement Variability (Repeated measurement requirement).....	21
7.4	Device holder perturbation verification (SAR).....	21
7.5	Requirements on the Uncertainty Evaluation	21
7.5.1	SAR Uncertainty Evaluation	21
APPENDIX 1:	Photographs of test setup	22
Appendix 1-1:	Photograph of EUT (Host platform) and antenna location.....	22
Appendix 1-2:	EUT and support equipment	23
Appendix 1-3:	Photograph of test setup	24
APPENDIX 2:	Measurement data.....	25
Appendix 2-1:	Plot(s) of Worst Reported Exposure Value (in each operation band, on each antenna)	25
APPENDIX 3:	Test instruments	27
Appendix 3-1:	Equipment used	27
Appendix 3-2:	Measurement System	28
Appendix 3-2-1:	SAR Measurement System	28
Appendix 3-2-2:	SAR system check results	31
Appendix 3-2-3:	SAR system check measurement data	31
Appendix 3-3:	Measurement Uncertainty	33
Appendix 3-4:	Calibration certificates.....	34

SECTION 1: Customer information

Company Name	Canon Inc.
Address	30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan
Telephone Number	+81-3-5482-4941
Contact Person	Sho Tanaka

The information provided from the customer is as follows;

- Customer name, Company name, Type of Equipment, Model No., FCC ID on the cover and other relevant pages.
- SECTION 1: Customer information
- SECTION 2: Equipment under test (EUT)
- SECTION 4: Operation of EUT during testing
- APPENDIX 1: The part of Antenna location information, Description of EUT and Support Equipment

SECTION 2: Equipment under test (EUT)

2.1 Identification of EUT

Description	Communication Module
Model Number	ES206
Serial Number	Refer to Appendix 1-2
Rating	DC 3.3 V (*. Supplied from host platform)
Condition	Engineering prototype (Not for sale: The sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab.
Receipt Date	January 10, 2026 (for power measurement) February 3, 2026 (for SAR test)
Test Date	January 16, 2026 to January 17, 2026 (for power measurement) February 10, 2026 to February 17, 2026 (for SAR test)

2.2 Product Description

General Specification

SAR Category Identified	Portable device (*. Since EUT may contact to a localized human body during wireless operation, the partial-body SAR (1 g) shall be observed.)
SAR Accessory	None, There are no accessories that would affect SAR test.

Radio specification

This report contains data provided by the customer which can impact the validity of results. UL Japan, Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The data provided by the customer is marked "a)" in the table below.

These host platforms are only supported BT LE, WLAN 2.4 GHz, 5.2 GHz, 5.3 GHz, 5.6 GHz and 5.8 GHz band which are limited by firmware.

WLAN (IEEE802.11b/11g/11n-20/11ax-20)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band: 2412 MHz to 2462 MHz	
Type of Modulation	DSSS, OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
Antenna Gain *a)	4.32 dBi	

WLAN (IEEE802.11a/11n-20/11ac-20/11ax-20)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band:	5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax Only)	20 MHz: 26/52/106/242-tone RU
Antenna Gain *a)	4.29 dBi (5180 MHz to 5240 MHz and 5260 MHz to 5320 MHz) 5.04 dBi (5500 MHz to 5700 MHz) 5.45 dBi (5745 MHz to 5825 MHz)	

Bluetooth (Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	GFSK
Antenna Gain *a)	4.32 dBi

Bluetooth (BR / EDR)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	FHSS (GFSK, $\pi/4$ DQPSK, 8 DPSK)
Antenna Gain *a)	4.32 dBi

Description of Host Platform

Manufacture	Canon Inc.
Product name	Digital Camera
Model number	DS126945
Condition	Engineering prototype (Not for sale: The sample is equivalent to mass-produced items.)
Rating	DC 7.2 V (Li-ion Battery, Refer to Appendix 1-2) (*. The SAR test was performed in battery operation.)
SAR Category Identified	Portable device (*. Since EUT may contact to a localized human body during wireless operation, the partial-body SAR (1 g) shall be observed.)
Exposure Category	General Population/Uncontrolled Exposure
SAR Accessory	None, There are no accessories that would affect SAR test.

Table of Typical power and Maximum tune-up tolerance limit power
(* . Indicate only the lowest data rate which has maximum power.)

Type	Band	Channel	Frequency [MHz]	Mode	BW [MHz]	OFDMA RU	D/R [bps] or MCS index#	Typ. [dBm]	Max. [dBm]
BT	BTLE	0 to 39	2402 to 2480	PHY1		-	1M	3	6
BT	BTLE	0 to 39	2402 to 2480	PHY2		-	2M	3	6
WLAN	2.4 GHz	1 to 11	2412 to 2462	11b	20	-	1M to 11M	8	10.5
WLAN	2.4 GHz	1 to 11	2412 to 2462	11g	20	-	6M to 54M	8	10.5
WLAN	2.4 GHz	1 to 11	2412 to 2462	11n	20	-	#0 to #7	7	9.5
WLAN	2.4 GHz	1 to 11	2412 to 2462	11ax	20	-	#0 to #11	7	9.5
WLAN	2.4 GHz	1 to 11	2412 to 2462	11ax	20	242	#0 to #11	7	9.5
WLAN	5.2 GHz	36 to 48	5180 to 5240	11a	20	-	6M to 54M	7	9
WLAN	5.2 GHz	36 to 48	5180 to 5240	11n	20	-	#0 to #7	7	9
WLAN	5.2 GHz	36 to 48	5180 to 5240	11ac	20	-	#0 to #9	7	9
WLAN	5.2 GHz	36 to 48	5180 to 5240	11ax	20	-	#0 to #11	7	9
WLAN	5.2 GHz	36 to 48	5180 to 5240	11ax	20	242	#0 to #11	7	9
WLAN	5.3 GHz	52 to 64	5260 to 5320	11a	20	-	6M to 54M	7	9
WLAN	5.3 GHz	52 to 64	5260 to 5320	11n	20	-	#0 to #7	7	9
WLAN	5.3 GHz	52 to 64	5260 to 5320	11ac	20	-	#0 to #9	7	9
WLAN	5.3 GHz	52 to 64	5260 to 5320	11ax	20	-	#0 to #11	7	9
WLAN	5.3 GHz	52 to 64	5260 to 5320	11ax	20	242	#0 to #11	7	9
WLAN	5.6 GHz	100 to 140	5500 to 5700	11a	20	-	6M to 54M	7	9
WLAN	5.6 GHz	100 to 140	5500 to 5700	11n	20	-	#0 to #7	7	9
WLAN	5.6 GHz	100 to 140	5500 to 5700	11ac	20	-	#0 to #9	7	9
WLAN	5.6 GHz	100 to 140	5500 to 5700	11ax	20	-	#0 to #11	7	9
WLAN	5.6 GHz	100 to 140	5500 to 5700	11ax	20	242	#0 to #11	7	9
WLAN	5.8 GHz	149 to 165	5745 to 5825	11a	20	-	6M to 54M	7	9
WLAN	5.8 GHz	149 to 165	5745 to 5825	11n	20	-	#0 to #7	7	9
WLAN	5.8 GHz	149 to 165	5745 to 5825	11ac	20	-	#0 to #9	7	9
WLAN	5.8 GHz	149 to 165	5745 to 5825	11ax	20	-	#0 to #11	7	9
WLAN	5.8 GHz	149 to 165	5745 to 5825	11ax	20	242	#0 to #11	7	9

- *. : The transmission mode with the highest power in each band is marked with a yellow marker.
- *. Maximum tune-up tolerance limit is conducted burst average power and is defined by a customer as Duty cycle 100 % (continuous transmitting).
- *. D/R: data rate, Ant.: antenna, Max. Maximum tune-up limit power, N/A: Not applicable.
- *. The EUT do not use the special transmitting technique such as "beam-forming" and "time-space code diversity."
- *. The table above shows the lowest data rate with the highest power for each mode and each channel. The power measurements and SAR tests were performed based on the conditions listed in the table above.
- *. Since OFDMA has maximum power in the largest RU, only the power in the largest RU is listed in the table.
- *. WLAN and Bluetooth use same antenna. Therefore, simultaneously transmitted SAR was not considered for the WLAN 2.4 GHz band and Bluetooth. Simultaneously transmitted SAR was only considered for the WLAN 5 GHz band and Bluetooth.

SECTION 3: Maximum SAR value, test specification and procedures

3.1 Summary of Maximum SAR Value

Mode / Band	Highest Reported SAR [W/kg]		
	Partial-body (Flat phantom, Separation 0 mm)	Head (SAM phantom)	Limbs
	1 g	1 g	10 g
WLAN 2.4 GHz	0.16	N/A	N/A
WLAN 5 GHz (5.2, 5.3, 5.6, 5.8 GHz band)	0.22	N/A	N/A
Bluetooth	0.06	N/A	N/A
Simultaneous Transmission	0.28 (See 7.2)	N/A	N/A
Limit applied	Partial body, Head: 1.6 W/kg (SAR 1 g), Limbs: 4.0 W/kg (SAR 10 g), for general population/uncontrolled exposure is specified in FCC 47 CFR 2.1093.		
Test Procedure	Refer to Section 3.2 in this report. In addition; UL Japan's SAR measurement work procedures No. ULID-003599 (13-EM-W0430). UL Japan's SAR measurement equipment calibration and inspection work procedures No. ULID-003598 (13-EM-W0429).		

Conclusion

The SAR test values found for the device are separately below the maximum limit of 1.6 W/kg.
For the simultaneous transmission, SUM of SAR 1 g values are below the maximum limit of 1.6 W/kg.

3.2 RF Exposure limit

For the purpose of this Regulation, FCC has adopted the SAR and RF exposure limits established in FCC 47 CFR 1.1310: Radiofrequency radiation exposure limits.

SAR Exposure Limit (100 kHz to 6 GHz)		
	General Population / Uncontrolled Exposure (*1)	Occupational / Controlled Exposure (*2)
Whole Body	0.08 W/kg	0.4 W/kg
Partial-Body, Head or Body (1 g)	1.6 W/kg	8 W/kg
Hands / Feet / Ankle / Wrist (10 g)	4 W/kg	20 W/kg

- *1. General Population / Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.
Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.
- *2. Occupational / 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).
Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

The limit applied to this device which tested in this report is;

Limit of Spatial Peak SAR (Partial-Body)	1.6 W/kg	General population / uncontrolled exposure
--	----------	--

3.3 Test specification

47 CFR 2.1093	Radiofrequency radiation exposure evaluation: portable devices
---------------	--

3.4 Published RF exposure KDB procedures and companion procedures

Name of documents	Title	Version
ANSI/IEEE C95.1	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz	1992
IEEE Std. 1528	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.	2013
KDB 248227 D01	SAR Guidance for IEEE 802.11 (Wi-Fi) transmitters	v02r02
KDB 447498 D04	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices	v01
KDB 447498 D03	OET Bulletin 65, Supplement C Cross-Reference	v01
KDB 865664 D01	SAR measurement 100 MHz to 6 GHz	v01r04
KDB 865664 D02	RF exposure compliance reporting and documentation considerations	v01r02
IEC/IEEE 62209-1528 (*1)	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz).	2020

*1. The measurement uncertainty budget is suggested by IEC/IEEE 62209-1528.

In addition to the above, the following information was used:

TCB workshop 2016-10	(RF Exposure Procedure) Bluetooth Duty Factor.
TCB workshop 2016-10	(RF Exposure Procedure) DUT Holder Perturbations; When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands.
TCB workshop 2017-05	(RF Exposure Procedure) Broadband liquid above 3 GHz. Allow application of 10% tissue dielectric tolerance correction in KDB 865664 D01.
TCB workshop 2018-04	(RF Exposure Procedure) Allow Expedited Area Scans. (including mother scans)
TCB workshop 2019-04	(RF Exposure Procedure) 802.11ax SAR Testing
TCB workshop 2019-04	(RF Exposure Procedure) Tissue Simulating Liquids (TSL) FCC has permitted the use of single head tissue simulating liquid specified in IEC 62209 for all SAR tests. If FCC parameters are used, 5 % tolerance. If IEC parameters, 10 %.
TCB workshop 2019-04	(RF Exposure Policy) SAR Zoom-Scan Update.
TCB workshop 2019-11	(RF Exposure Procedure) SPLSR Hotspot Combination
TCB workshop 2021-04	(RF Exposure Procedure) Application of specific phantoms. (case by case, PAG)
TCB workshop 2022-04	(RF Exposure Procedure) Sum Peak Location Separation Ratio (SPLSR)
TCB workshop 2025-04	(RF Exposure Procedure) Interim RF Exposure Testing Guidance.

3.5 Additions or Deviations to Standards

No addition, exclusion nor deviation has been made from the test standard.

3.6 Test Location

UL Japan, Inc., Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 JAPAN

Telephone number: +81 463 50 6400

*. A2LA Certificate Number: 1266.03 (FCC Test Firm Registration Number: 626366,

ISED Lab Company Number: 2973D / CAB identifier: JP0001)

Place	Width × Depth × Height (m)	Size of reference ground plane (m) / horizontal conducting plane
No.7 Shielded room(SR7)	2.76 × 3.76 × 2.4	2.76 × 3.76

3.7 SAR measurement procedure

3.7.1 SAR Definition

SAR is defined as 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 shown in right.	$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho \cdot dV} \right)$
SAR measurement can be related to the electrical field in the tissue by the equation in right. SAR is expressed in units of Watts per kilogram (W/kg).	$SAR = \frac{\sigma E ^2}{\rho}$
Where: σ = conductivity of the tissue (S/m), ρ = mass density of the tissue (kg/m ³), E = RMS electric field strength in tissue (V/m)	

3.7.2 Full SAR measurement procedure

The SAR measurement procedures are as follows: (1) The EUT is installed engineering testing software that provides continuous transmitting signal; (2) Measure output power through RF cable and power meter; (3) Set scan area, grid size and other setting on the DASY software; (4) Find out the largest SAR result on these testing positions of each band; (5) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg.

* According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

Step 1) Power measurement -> SAR: Step 2) Power reference measurement -> Step 3) Area scan -> Step 4) Zoom scan -> Step 5) Power drift measurement

Step 1: Confirmation before SAR testing

Before SAR test, the RF wiring for the sample had been switched to the antenna conducted power measurement line from the antenna line and the average power was measured. This SAR reference power measurement was proceeded with the lowest data rate (which may have the higher time-based average power typically) on each operation mode and on the lower, middle (or near middle), upper and specified channels. The power measurement result is shown in Section 5.

* The EUT transmission power used SAR test was verified that it was not more than 2 dB lower than the maximum tune-up tolerance limit. (KDB447498 D04 (v01))

Step 2: Power reference measurement

Measured psSAR value at a peak location of Fast Area Scan was used as a reference value for assessing the power drop.

Step 3: Area Scan

(Scan parameters: KDB 865664 D01, IEC/IEEE 62209-1528 (> 6GHz))

Area Scans are used to determine the peak location of the measured field before doing a finer measurement around the hotspot. Peak location can be found accurately even on coarse grids using the advanced interpolation routines implemented in DASY8. Area Scans measure a two dimensional volume covering the full device under test area. DASY8 uses Fast Averaged SAR algorithm to compute the 1 g and 10 g of simulated tissue from the Area Scan. DASY8 can either manually or automatically generates Area Scan grid settings based on device dimensions. In automatically case, the scan extent is defined by the device dimensions plus additional 15mm on each side. In manually, the scan covered the entire dimension of the antenna of EUT.

Step 4: Zoom Scan and post-processing

(Scan parameters: KDB 865664 D01, IEC/IEEE 62209-1528 (> 6GHz))

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure.

* A minimum volume of 30 mm (x) × 30 mm (y) × 30 mm (z) was assessed by "Ratio step" method (*1), for 2.4 GHz band. (Step XY: 5 mm)

* A minimum volume of 24 mm (x) × 24 mm (y) × 22 mm (z) was assessed by "Ratio step" method (*1), for 5 GHz band (Step XY: 4 mm).

* A minimum volume of 22 mm (x) × 22 mm (y) × 22 mm (z) was assessed by "Ratio step" method (*1), for 6 GHz band (Step XY: 3.4 mm).

When the SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are proceeded for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR. If the zoom scan measured as defined above complies with both of the following criteria. or if the peak spatial-average SAR is below 0.1 W/kg, no additional measurements are needed.

* The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x and y directions and recorded.

* The ratio of the SAR at the second measured point to the SAR at the closest measured point at the x-y location of the measured maximum SAR value shall be at least 30 % and recorded.

Step 5: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same project. The Power Drift Measurement gives the SAR 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. It was checked that the power drift was within ± 5% (0.21 dB) in single SAR project run. The verification of power drift during the SAR test shown in SAR plot data of APPENDIX 2.

* The most of SAR tests were conservatively performed with test separation distance 0 mm. The phantom bottom thickness is approx. 2mm. Therefore, the distance between the SAR probe tip to the surface of test device which is touched the bottom surface of the phantom is approx. 2.4 mm. Typical distance from probe tip to probe's dipole centers is 1 mm.

*1. "Ratio step" method parameters used; the first measurement point: "1.4 mm" from the phantom surface, the initial z grid separation: "1.5 mm", subsequent graded grid ratio: "1.5" for 2.4 GHz band and the initial z grid separation: "1.4 mm", subsequent graded grid ratio: "1.4" for above 5 GHz. These parameters comply with the requirement of KDB 865664 D01 and recommended by Schmid & Partner Engineering AG (DASY8 manual).

		$f \leq 3$ GHz	3 GHz < $f \leq 10$ GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$1/2 \times \delta \times \ln(2)$ mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		5 ° ± 1 ° (flat phantom only) 30 ° ± 1 ° (other phantom)	5 ° ± 1 ° (flat phantom only) 30 ° ± 1 ° (other phantom)
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz : ≤ 15 mm, 2~3 GHz : ≤ 12 mm	3~4 GHz : ≤ 12 mm, 4~6 GHz : ≤ 10 mm > 6 GHz : $\leq 60/f$ mm, or half of the corresponding zoom scan length, whichever is smaller.
		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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz : ≤ 8 mm, 2~3 GHz : ≤ 5 mm (*1)	3~4 GHz : ≤ 5 mm (*1), 4~6 GHz : ≤ 4 mm (*1) > 6 GHz : $\leq 24/f$ mm
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3~4 GHz : ≤ 4 mm, 4~5 GHz : ≤ 3 mm, 5~6 GHz : ≤ 2 mm > 6 GHz : $\leq 10/(f-1)$ mm
	graded grid $\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface $\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 4 mm	3~4 GHz : ≤ 3 mm, 4~5 GHz : ≤ 2.5 mm, 5~6 GHz : ≤ 2 mm > 6 GHz : $\leq 12/f$ mm
Minimum zoom scan volume x, y, z		≥ 30 mm	3~4 GHz : ≥ 28 mm, 4~5 GHz : ≥ 25 mm, 5~6 GHz : ≥ 22 mm > 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 (≤ 6 GHz) and IEC/IEEE 62209-1528 (≤ 10 GHz) for details.

*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 ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 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. (KDB 865664 D01)

* The scan parameters of > 6GHz is defined IEC/IEEE 62209-1528.

SECTION 4: Operation of EUT during testing

4.1 Operating modes for testing

The test modes and frequencies used in the SAR test are shown in the table of power measurement results in Section 5 with markings.

The control software in the power measurement and SAR test are shown in the following.

Controlled software	Software name	Version	Date	Storage location / Remarks
	RF Test	1.4.0 0023(09)60014144	January 13, 2026	EUT memory

4.2 RF exposure conditions (Test exemption considerations)

Antenna separation distances of each test setup plan and SAR test exemption of each test setup are shown as follows.

SAR test exemption consideration by KDB 447498 D04 (v01)

		Antenna						Antenna Separation distance [mm]						
		Max. ATP		Gain	ERP		4.3	4.3	8	16	39.25	58.8	118.4	
		[dBm]	[mW]	[dBi]	[dBm]	[mW]	Front	Front-left	Left	Top	Bottom	Back	Right	
Tx mode	Higher Freq. [MHz]							SAR1g test exempt threshold power [mW] (upper row)						
								Judge of SAR test exemption (lower row)						
BT	2480	6	3.98	4.32	8.17	6.56	2.72	2.72	6.65	24.91	137.62	297.19	1127.3	
							Test	Test	Exempt	Exempt	Exempt	Exempt	Exempt	
WLAN 2.4 GHz	2462	10.5	11.22	4.32	12.67	18.49	2.73	2.73	6.69	25.01	137.97	297.76	1128.24	
							Test	Test	Test	Exempt	Exempt	Exempt	Exempt	
WLAN 5.2 GHz	5240	9	7.94	4.29	11.14	13.00	1.49	1.49	3.94	16.53	105.63	243.6	1035.28	
							Test	Test	Test	Exempt	Exempt	Exempt	Exempt	
WLAN 5.3 GHz	5320	9	7.94	4.29	11.14	13.00	1.47	1.47	3.9	16.39	105.07	242.62	1033.49	
							Test	Test	Test	Exempt	Exempt	Exempt	Exempt	
WLAN 5.6 GHz	5700	9	7.94	5.04	11.89	15.45	1.4	1.4	3.72	15.78	102.53	238.21	1025.41	
							Test	Test	Test	Exempt	Exempt	Exempt	Exempt	
WLAN 5.8 GHz	5825	9	7.94	5.45	12.3	16.98	1.37	1.37	3.66	15.59	101.75	236.84	1022.88	
							Test	Test	Test	Test	Exempt	Exempt	Exempt	

- *. Freq.: Frequency, ATP: Antenna terminal conducted power.
- *. Antenna separation distance. It is the distance from the antenna inside host platform to the outer surface of host platform which user may touch. Details of "antenna separation distance" and "Size of host platform" are shown in Appendix 1-1.
- *. The table shows the upper frequency which has the maximum power (as "Tune-up limit") in each operation band, in mode and on the single antenna transmission.
- *. Since this method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive), when the minimum test separation distance is < 5 mm, a distance of 5 mm was applied to determine SAR test exclusion for the calculation.
- *. The actual test setup tested depends on the measurement results. See Section 7 for the actual tested test setup.

Calculating formula:		TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION			
1) ERP		RF Source Frequency	Minimum Distance	Threshold ERP	
ERP (dBm) = (Max. ATP, dBm) + (antenna gain, dBi) - 2.15		f_L MHz	f_H MHz	$\lambda_L/2\pi$	$\lambda_H/2\pi$
2) SAR test exempt threshold power		0.3	1.34	159 m	35.6 m
$P_{th}(mW) =$		1.34	30	35.6 m	1.6 m
$ERP_{20cm}(mW) =$		30	300	1.6 m	159 m
$\begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6.0 \text{ GHz} \end{cases}$	(B.1)	300	1500	159 mm	31.8 mm
		1500	100000	31.8 mm	0.5 mm
		Subscripts L and H are low and high; λ is wavelength.			
		From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance			
		columns. R is in meter, f is in MHz.			
		Upper 2.4GHz: Threshold ERP [W] = $19.2 \times R^2$, at distance: over 40 cm			

SAR-based thresholds (P_{th} (mW)) shown below table of "Example Power Thresholds [mW]" are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged effective radiated power (ERP), whichever is greater. The SAR-based exemption is calculated by Formula (B.2) in below, applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

When 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

*. This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).

Below is the test reduction procedure for KDB.

* OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

(KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters) The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures.

When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected.

* SAR test reduction considerations

(KDB 447498 D04(v01) General RF Exposure Guidance) Testing of other required channels within the operating mode of a frequency band is not required when the reported 1g or 10g SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg for 1g, or 2.0 W/kg for 10g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 0.6 W/kg for 1g, or 1.5 W/kg for 10g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) ≤ 0.4 W/kg for 1g, or 1.0 W/kg for 10g respectively, when the transmission band is ≥ 200 MHz

The SAR has been measured with highest transmission duty factor supported by the test mode tool for WLAN and/or Bluetooth. When the transmission duty factor could not be 100%, the reported SAR will be scaled to 100% transmission duty factor to determine compliance. When SAR is not measured at the maximum power level allowed for production unit, the measured SAR will be scaled to the maximum tune-up tolerance limit to determine compliance.

(KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters) When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is ≤ 1.2 W/kg or all required channels are tested.

For 2.4GHz band, the highest measured maximum output power channel of DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR test is required in this exposure configuration. Otherwise, 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. For OFDM modes (802.11g/n), SAR is not required when 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.

For 5GHz band, the initial test configuration was selected accordance to the transmission mode with the highest maximum output power. When the reported SAR is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

SECTION 5: Confirmation before testing

5.1 Test reference power measurement

CH	Freq. [MHz]	Tx mode				OFDMA		Power			Duty cycle [%]	Duty factor [dB]	Duty scaled factor [-]	Power			
		Mode	D/R [Mbps]	Number of Tx ant.	Stream	RU	Index	Typ. [dBm]	Max. [dBm]	Set				Burst Ave. [dBm]	Burst Ave. [mW]	Δmax [dB]	Scaled Factor
0	2402	BT LE(1M)	1	1Tx	1ST	-	-	3	6	Fix	87.3	0.59	1.15	4.24	2.65	1.76	1.50
19	2440	BT LE(1M)	1	1Tx	1ST	-	-	3	6	Fix	87.3	0.59	1.15	4.43	2.77	1.57	1.44
39	2480	BT LE(1M)	1	1Tx	1ST	-	-	3	6	Fix	87.3	0.59	1.15	4.43	2.77	1.57	1.44
0	2402	BT LE(2M)	2	1Tx	1ST	-	-	3	6	Fix	80.1	0.96	1.25	4.21	2.64	1.79	1.51
19	2440	BT LE(2M)	2	1Tx	1ST	-	-	3	6	Fix	80.1	0.96	1.25	4.44	2.78	1.56	1.43
39	2480	BT LE(2M)	2	1Tx	1ST	-	-	3	6	Fix	80.1	0.96	1.25	4.42	2.77	1.58	1.44
1	2412	11b	1	1Tx	1ST	-	-	8	10.5	9	98.7	0.06	1.01	8.94	7.83	1.56	1.43
6	2437	11b	1	1Tx	1ST	-	-	8	10.5	9	98.7	0.06	1.01	8.69	7.40	1.81	1.52
11	2462	11b	1	1Tx	1ST	-	-	8	10.5	9	98.7	0.06	1.01	8.81	7.60	1.69	1.48
1	2412	11g	6	1Tx	1ST	-	-	8	10.5	9	98.0	0.09	1.02	9.12	8.17	1.38	1.37
6	2437	11g	6	1Tx	1ST	-	-	8	10.5	9	98.0	0.09	1.02	8.92	7.80	1.58	1.44
11	2462	11g	6	1Tx	1ST	-	-	8	10.5	9	98.0	0.09	1.02	8.79	7.57	1.71	1.48
1	2412	11n20	MCS0	1Tx	1ST	-	-	7	9.5	8	98.0	0.09	1.02	7.89	6.15	1.61	1.45
6	2437	11n20	MCS0	1Tx	1ST	-	-	7	9.5	8	98.0	0.09	1.02	7.97	6.27	1.53	1.42
11	2462	11n20	MCS0	1Tx	1ST	-	-	7	9.5	8	98.0	0.09	1.02	7.80	6.03	1.70	1.48
1	2412	11ax20	MCS0	1Tx	1ST	-	-	7	9.5	8	97.9	0.09	1.02	8.43	6.97	1.07	1.28
6	2437	11ax20	MCS0	1Tx	1ST	-	-	7	9.5	8	97.9	0.09	1.02	8.18	6.58	1.32	1.36
11	2462	11ax20	MCS0	1Tx	1ST	-	-	7	9.5	8	97.9	0.09	1.02	8.03	6.35	1.47	1.40
1	2412	11ax20	MCS0	1Tx	1ST	242	61	7	9.5	8	97.8	0.10	1.02	8.22	6.64	1.28	1.34
6	2437	11ax20	MCS0	1Tx	1ST	242	61	7	9.5	8	97.8	0.10	1.02	8.22	6.64	1.28	1.34
11	2462	11ax20	MCS0	1Tx	1ST	242	61	7	9.5	8	97.8	0.10	1.02	8.02	6.34	1.48	1.41
36	5180	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.33	5.41	1.67	1.47
40	5200	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.55	5.69	1.45	1.40
44	5220	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.84	6.08	1.16	1.31
48	5240	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.95	6.24	1.05	1.27
52	5260	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.64	5.81	1.36	1.37
56	5280	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.38	5.47	1.62	1.45
60	5300	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.68	5.86	1.32	1.36
64	5320	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.82	6.05	1.18	1.31
100	5500	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	8.48	7.05	0.52	1.13
120	5600	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	8.10	6.46	0.90	1.23
140	5700	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.65	5.82	1.35	1.36
149	5745	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.95	6.24	1.05	1.27
157	5785	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.53	5.66	1.47	1.40
165	5825	11a	6	1Tx	1ST	-	-	7	9	8	98.2	0.08	1.02	7.22	5.27	1.78	1.51
36	5180	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.39	5.48	1.61	1.45
40	5200	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.66	5.83	1.34	1.36
44	5220	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.78	6.00	1.22	1.32
48	5240	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.04	6.37	0.96	1.25
52	5260	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.35	5.43	1.65	1.46
56	5280	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.44	5.55	1.56	1.43
60	5300	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.61	5.77	1.39	1.38
64	5320	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.78	6.00	1.22	1.32
100	5500	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.35	6.84	0.65	1.16
120	5600	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.99	6.30	1.01	1.26
140	5700	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.36	5.45	1.64	1.46
149	5745	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.92	6.19	1.08	1.28
157	5785	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.41	5.51	1.59	1.44
165	5825	11n20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.36	5.45	1.64	1.46

CH	Freq. [MHz]	Tx mode				OFDMA		Power			Duty cycle [%]	Duty factor [dB]	Duty scaled factor [-]	Power			
		Mode	D/R [Mbps]	Number of Tx ant.	Stream	RU	Index	Typ. [dBm]	Max. [dBm]	Set				Burst Ave. [dBm]	Burst Ave. [mW]	Δmax [dB]	Scaled Factor
36	5180	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.46	5.57	1.54	1.43
40	5200	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.62	5.78	1.38	1.37
44	5220	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.97	6.27	1.03	1.27
48	5240	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.91	6.18	1.09	1.29
52	5260	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.40	5.50	1.60	1.45
56	5280	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.39	5.48	1.61	1.45
60	5300	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.81	6.04	1.19	1.32
64	5320	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.81	6.04	1.19	1.32
100	5500	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	8.51	7.10	0.49	1.12
120	5600	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.93	6.21	1.07	1.28
140	5700	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.31	5.38	1.69	1.48
149	5745	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.84	6.08	1.16	1.31
157	5785	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.49	5.61	1.51	1.42
165	5825	11ac20	MCS0	1Tx	1ST	-	-	7	9	8	98.0	0.09	1.02	7.49	5.61	1.51	1.42
36	5180	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.77	5.98	1.23	1.33
40	5200	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.90	6.17	1.10	1.29
44	5220	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.29	6.75	0.71	1.18
48	5240	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.23	6.65	0.77	1.19
52	5260	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.57	5.71	1.43	1.39
56	5280	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.70	5.89	1.30	1.35
60	5300	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.99	6.30	1.01	1.26
64	5320	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.09	6.44	0.91	1.23
100	5500	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.68	7.38	0.32	1.08
120	5600	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.25	6.68	0.75	1.19
140	5700	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.53	5.66	1.47	1.40
149	5745	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	8.01	6.32	0.99	1.26
157	5785	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.94	6.22	1.06	1.28
165	5825	11ax20	MCS0	1Tx	1ST	-	-	7	9	8	98.1	0.08	1.02	7.72	5.92	1.28	1.34
36	5180	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.67	5.85	1.33	1.36
40	5200	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.92	6.19	1.08	1.28
44	5220	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	8.11	6.47	0.89	1.23
48	5240	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	8.21	6.62	0.79	1.20
52	5260	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.75	5.96	1.25	1.33
56	5280	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.74	5.94	1.26	1.34
60	5300	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.99	6.30	1.01	1.26
64	5320	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	8.21	6.62	0.79	1.20
100	5500	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	8.71	7.43	0.29	1.07
120	5600	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	8.22	6.64	0.78	1.20
140	5700	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.55	5.69	1.45	1.40
149	5745	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	8.18	6.58	0.82	1.21
157	5785	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.87	6.12	1.13	1.30
165	5825	11ax20	MCS0	1Tx	1ST	242	61	7	9	8	97.9	0.09	1.02	7.59	5.74	1.41	1.38

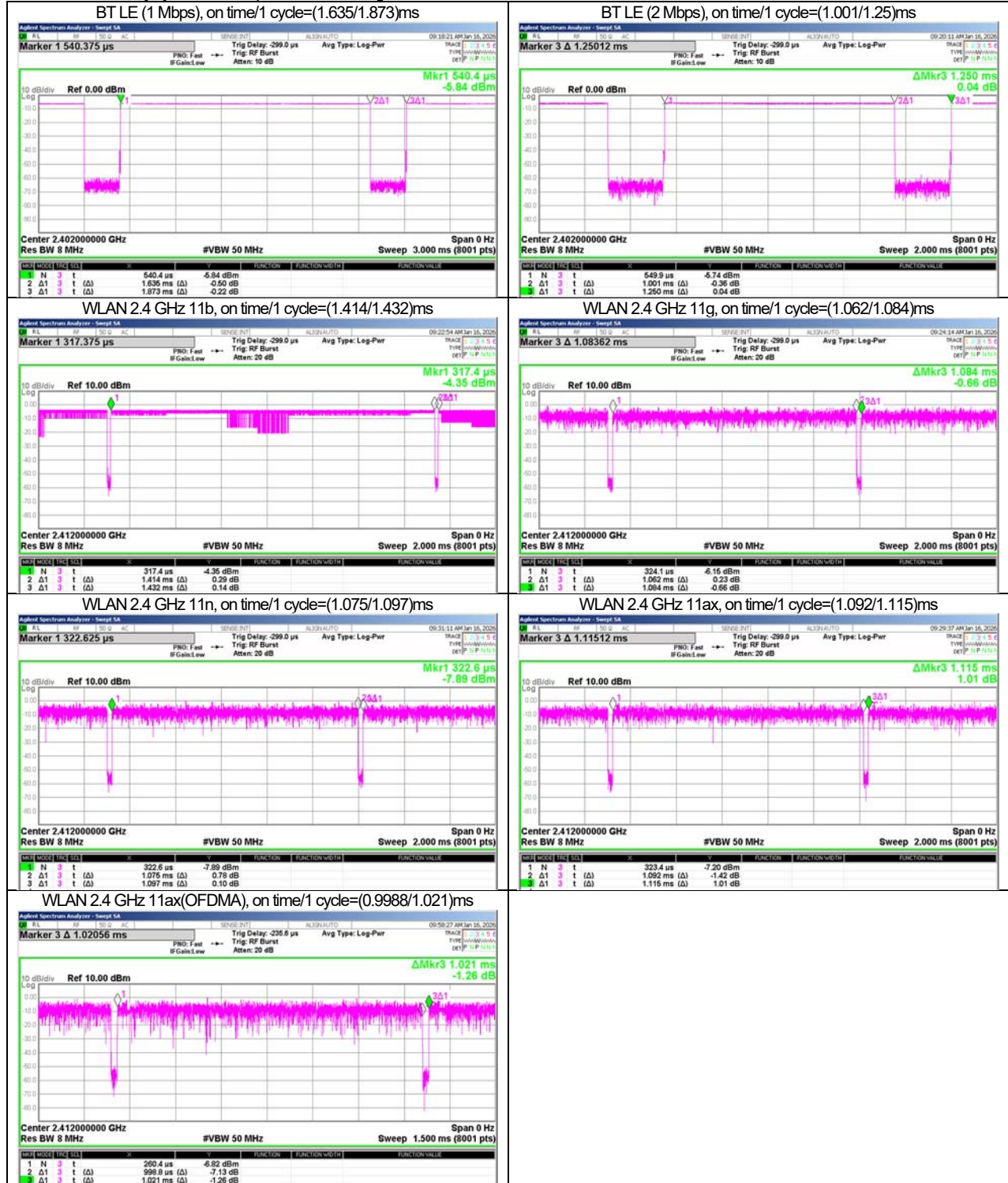
- *. SAR test was applied.
 *. (KDB 248227 D01) Initial SAR test was applied to the operation mode which has higher bandwidth with the highest tune-up power and lower data rate.
 *. CH: Channel; Power: Power specification; Max.: Maximum; Set: Set power by test software; Burst Ave.: Measured burst average power; Time Ave.: Measured time-based average power; N/A: Not applied/Not applicable.

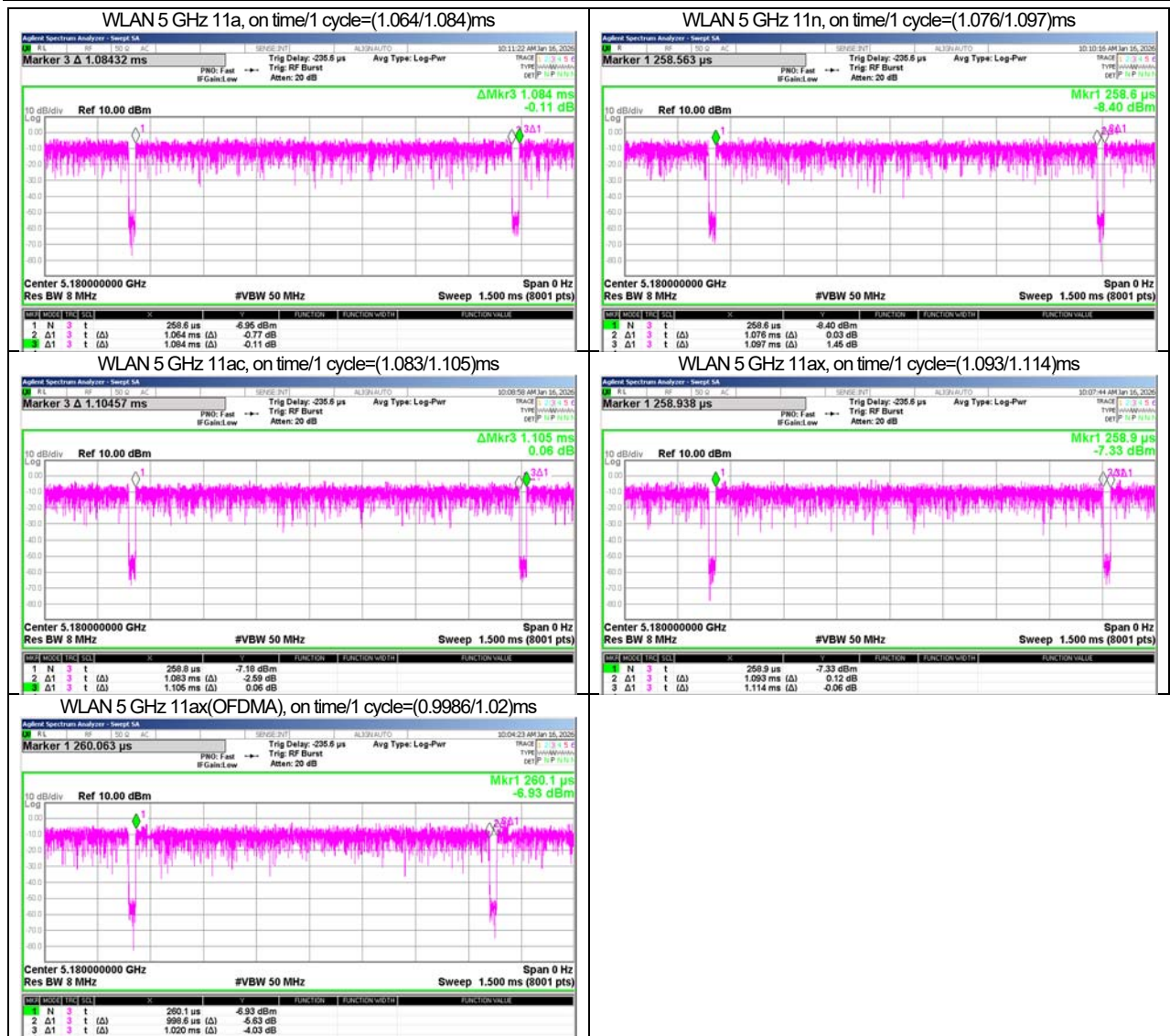
- *. Calculating formula: Time average power (dBm) = (P/M Reading, dBm)+(Cable loss, dB)+(Attenuator, dB)
 Burst power (dBm) = (P/M Reading, dBm)+(Cable loss, dB)+(Attenuator, dB)+(duty factor, dB)
 Duty cycle: (duty cycle, %) = (Tx on time) / (1 cycle time) × 100, Duty factor (dBm) = 10 × log (100/(duty cycle, %))
 Duty cycle scaled factor [-] = 100(%) / (duty cycle, %), Power scaled factor [-] = 10 ^ ("Deviation from max., dB" / 10)
 ΔMax. (Deviation from max.power, dB) = (Max.tune-up limit power (average, dBm)) - (Burst power measured (average, dBm))

Date	Test site	Temperature	Humidity	Engineer
January 16, 2026	No. 7 preparation room	23 deg.C	37 %RH	Akihiro Oda
January 17, 2026	No. 7 preparation room	24 deg.C	39 %RH	Akihiro Oda

- *. Uncertainty of antenna port conducted test; (±) 1.2 dB (Average power), (±) 0.27 % (duty cycle).

Chart of the worst duty cycle for each operation mode in right and in follows.





SECTION 6: Tissue simulating liquid

6.1 Liquid measurement

<SPC: System performance check>

Date measured	Freq.	Liq. type	Target		Permittivity (*,measured)			Target		Conductivity (*,calculated)(*)3			ΔSAR		e',e''	Liq. Temp.	Liq. depth	Liquid usage conditions (*1)
			e'	e'	Δe'	Limit	e''	σ_tgt	σ	Δσ	Limit	1g	10g	Lerp				
			[-]	[-]	[%]	[%](*)2	[-]	[S/m]	[S/m]	[%]	[%](*)2	[%]	[%]	?	[deg.C.]			
2026-02-10	5250	Head	35.93	36.29	1.0	±10	15.8252	4.706	4.622	-1.8	±10	-0.1	-0.2	No	22.5	150	begin	
2026-02-12	5600	Head	35.53	35.58	0.1	±10	15.9586	5.065	4.972	-1.8	±10	0.1	0.1	No	22.5	150	begin	
2026-02-16	2450	Head	39.20	40.61	3.6	±10	13.4327	1.800	1.831	1.7	±10	0.0	-0.1	No	22.5	150	<48 hrs.	
2026-02-16	5800	Head	35.30	35.12	-0.5	±10	15.9748	5.270	5.154	-2.2	±10	0.2	0.2	No	22.5	150	<48 hrs.	

<SAR test>

Date measured	Freq.	Liq. type	Target	Permittivity (*,measured)					Target	Conductivity (*,calculated)(*)3				ΔSAR		e',e"	Liq.	Liq.	Liquid usage conditions (*1)
			e'	e'	Δe'	Limit	e"	σ_tgt	σ	Δσ	Limit	1g	10g	Lerp	Temp.	depth			
			[-]	[-]	[%]	[%](*)2	[-]	[S/m]	[S/m]	[%]	[%](*)2	[%]	[%]	?	[deg.C.]	[mm]			
(YYYY-MM-DD)	[MHz]																		
2026-02-10	5180	Head	36.01	36.41	1.1	±10	15.7546	4.635	4.540	-2.0	±10	-0.2	-0.2	No	22.5	150	Measured before SAR test.		
2026-02-10	5220	Head	35.96	36.34	1.0	±10	15.7958	4.676	4.587	-1.9	±10	-0.1	-0.2	No	22.5	150			
2026-02-10	5240	Head	35.94	36.31	1.0	±10	15.8146	4.696	4.610	-1.8	±10	-0.1	-0.2	No	22.5	150			
2026-02-10	5260	Head	35.92	36.27	1.0	±10	15.8330	4.717	4.633	-1.8	±10	-0.1	-0.2	No	22.5	150			
2026-02-10	5300	Head	35.87	36.20	0.9	±10	15.8620	4.758	4.677	-1.7	±10	-0.1	-0.1	No	22.5	150			
2026-02-10	5320	Head	35.85	36.16	0.9	±10	15.8783	4.778	4.699	-1.7	±10	-0.1	-0.1	No	22.5	150			
2026-02-12	5500	Head	35.64	35.75	0.3	±10	15.8554	4.963	4.851	-2.3	±10	0.0	0.0	No	22.5	150	Measured before SAR test.		
2026-02-12	5600	Head	35.53	35.58	0.1	±10	15.9586	5.065	4.972	-1.8	±10	0.1	0.1	No	22.5	150			
2026-02-12	5700	Head	35.41	35.41	0.0	±10	16.0505	5.168	5.090	-1.5	±10	0.1	0.1	No	22.5	150			
2026-02-16	2402	Head	39.29	40.67	3.5	±10	13.4106	1.757	1.792	2.0	±10	0.2	0.0	No	22.5	150	Measured before test. There were used until 2026-02-17 (< 48 hrs.).		
2026-02-16	2412	Head	39.27	40.65	3.5	±10	13.4173	1.766	1.800	1.9	±10	0.1	0.0	No	22.5	150			
2026-02-16	2437	Head	39.22	40.62	3.6	±10	13.4287	1.788	1.821	1.8	±10	0.1	-0.1	No	22.5	150			
2026-02-16	2440	Head	39.22	40.61	3.5	±10	13.4305	1.791	1.823	1.8	±10	0.1	-0.1	No	22.5	150			
2026-02-16	2462	Head	39.19	40.60	3.6	±10	13.4362	1.813	1.840	1.5	±10	-0.1	-0.2	No	22.5	150			
2026-02-16	2480	Head	39.16	40.57	3.6	±10	13.4352	1.833	1.854	1.1	±10	-0.3	-0.3	No	22.5	150			
2026-02-16	5745	Head	35.36	35.24	-0.3	±10	15.8950	5.214	5.080	-2.6	±10	0.2	0.2	No	22.5	150			
2026-02-16	5785	Head	35.32	35.14	-0.5	±10	15.9459	5.255	5.132	-2.3	±10	0.2	0.2	No	22.5	150			
2026-02-16	5825	Head	35.27	35.11	-0.5	±10	15.9968	5.296	5.184	-2.1	±10	0.2	0.2	No	22.5	150			

*. Lerp: Linear interpolation, Ref.: reference

*1. Definition of Δend , "begin": there are measured before SAR test; "< 24 hrs.": SAR test has ended within 24 hours from the liquid parameter measured; "< 48 hrs.": Since SAR test has ended within 48 hours from the liquid parameter measured and a change in the liquid temperature was within 1 degree, liquid parameters measured on first day were used on next day continuously; "> 48 hrs.": Since the SAR test series took longer than 48 hours, the liquid parameters were measured on every 48 hours period and on the date which was end of test series. Since the difference of liquid parameters between the beginning and next measurement was smaller than 5%, the liquid parameters measured in beginning were used until end of each test series.

Calculating formula: $\Delta end \text{ (when, } > 48 \text{ hrs.) } (\%) = \{(\text{dielectric properties, end of test series}) / (\text{dielectric properties, beginning of test series}) - 1\} \times 100$

*2. The electrical properties of the liquid at <6 GHz were controlled to within 5 % even with a limit of 10 %.

*3. (Calculating formula) $\sigma = 2 \times \pi \times f \times \epsilon_0 \times \epsilon''$, where $\epsilon_0 = 8.854 \text{ E-12 [F/m]}$, ϵ'' : Imaginary permittivity [-], f: Frequency [Hz]

*. The electrical characteristics of the SAR test frequencies were measured using DAK software, DAK-3.5 and a network analyzer with the 2.4 GHz band swept at 1 MHz and the 5 GHz and 6 GHz bands swept at 5 MHz. In this way, the electrical characteristics of all test frequencies were measured directly at the individual frequencies without interpolation.

*. The target values refers to clause 6.2 of this report.

*. The coefficients in below are parameters defined in IEEE Std.1528.

(Calculating formula, 4 MHz to 6 GHz): $\Delta SAR(1g) = C_{\sigma} \times \Delta \epsilon' + C_{\sigma} \times \Delta \sigma$, $C_{\sigma} = 7.854 \text{ E-4} \times f^3 + 9.402 \text{ E-3} \times f^2 + 2.742 \text{ E-2} \times f + 0.2026$ / $C_{\sigma} = 9.804 \text{ E-3} \times f^3 + 8.661 \text{ E-2} \times f^2 + 2.981 \text{ E-2} \times f + 0.7829$

$\Delta SAR(10g) = C_{\sigma} \times \Delta \epsilon' + C_{\sigma} \times \Delta \sigma$, $C_{\sigma} = 3.456 \times 10^{-3} \times f^3 + 3.531 \times 10^{-2} \times f^2 + 7.675 \times 10^{-2} \times f + 0.1860$ / $C_{\sigma} = 4.479 \times 10^{-3} \times f^3 + 1.586 \times 10^{-2} \times f^2 + 0.1972 \times f + 0.7717$

(Calculating formula, above 6 GHz): $\Delta SAR(1g) = C_{\sigma} \times \Delta \epsilon' + C_{\sigma} \times \Delta \sigma$, $C_{\sigma} = -0.198$ / $C_{\sigma} = 0$, $\Delta SAR(10g) = C_{\sigma} \times \Delta \epsilon' + C_{\sigma} \times \Delta \sigma$, $C_{\sigma} = -0.250$ / $C_{\sigma} = 0$

Since the ΔSAR values of the tested liquid had shown positive, the measured SAR was not ΔSAR corrected by the conservative reason.

(Calculating formula): $\Delta SAR \text{ corrected SAR (W/kg)} = (\text{Measured SAR (W/kg)}) \times (100 - (\Delta SAR(\%))) / 100$

6.2 Target of tissue simulating liquid

Nominal dielectric values of the Head-TSL (tissue simulating liquids) in the phantom refer to the following table. (Appendix A, KDB 865664 v01r04)

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
1800 to 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

*. For other frequencies, the target nominal dielectric values were obtained by linear interpolation between the higher and lower tabulated figures. Above 5800MHz were obtained using linear extrapolation.

6.3 Simulated tissue composition

Used	☒	☐
Model No. / Product No.	HBBL600-10000V6 / SL AAH U16 BC	HBBL4-250V4 / SL AAH 005 AD
Frequency [MHz]	600 to 10000	4 to 250
Ingredient: Mixture [%]	Water: > 77	50 < Water < 90
	Ethenediol: < 5.2	5 < Non-ionic detergents < 50
	Sodium acids, petroleum, sodium salts: < 3	NaCl: < 2
	Hexylene Glycol: < 3	Preservative: < 0.1
	Alkoxylated alcohol (>C ₁₆): < 2	-
	Potassium hydroxide: < 1	-
	Pyridine-2-thiol 1-oxide: < 0.1	-
Tolerance specification [%]	± 10	
Manufacture	Schmid & Partner Engineering AG	

SECTION 7: Measurement results

7.1 Measurement results

7.1.1 SAR measurement results (2.4 GHz band)

RF Exposure condition	Setup position	Gap [mm]	Source power	Tx mode						Freq.		Duty [%]	Duty S/F [-]	Pmax [dBm]	Pset [-]	Pmeas [dBm]	Pwr. S/F [-]	SAR1g [W/kg] (*b)			Limit [W/kg]	Memo
				mode	Tx	Stream	D/R [Mbps]	RU	index	[MHz]	CH							Meas.	Δsar(*a)	Report		
Body	Front-left	0	Battery	BT LE(1M)	1Tx	1ST	1	-	-	2402	0	87.3	1.15	6	Fix	4.24	1.5	0.026	N/A	0.045	1.6	<0.4 w/kg
Body	Front-left	0	Battery	BT LE(1M)	1Tx	1ST	1	-	-	2440	19	87.3	1.15	6	Fix	4.43	1.44	0.034	N/A	0.056	1.6	<0.4 w/kg
Body	Front-left	0	Battery	BT LE(1M)	1Tx	1ST	1	-	-	2480	39	87.3	1.15	6	Fix	4.43	1.44	0.036	N/A	0.06	1.6	<0.4 w/kg
Body	Left	0	Battery	BT LE(1M)	1Tx	1ST	1	-	-	2402	0	87.3	1.15	6	Fix	4.24	1.5	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	BT LE(1M)	1Tx	1ST	1	-	-	2440	19	87.3	1.15	6	Fix	4.43	1.44	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	BT LE(1M)	1Tx	1ST	1	-	-	2480	39	87.3	1.15	6	Fix	4.43	1.44	0.022	N/A	0.036	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11b	1Tx	1ST	1	-	-	2412	1	98.7	1.01	10.5	9	8.94	1.43	0.104	N/A	0.15	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11b	1Tx	1ST	1	-	-	2437	6	98.7	1.01	10.5	9	8.69	1.52	0.102	N/A	0.157	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11b	1Tx	1ST	1	-	-	2462	11	98.7	1.01	10.5	9	8.81	1.48	0.11	N/A	0.164	1.6	<0.4 w/kg
Body	Left	0	Battery	11b	1Tx	1ST	1	-	-	2412	1	98.7	1.01	10.5	9	8.94	1.43	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11b	1Tx	1ST	1	-	-	2437	6	98.7	1.01	10.5	9	8.69	1.52	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11b	1Tx	1ST	1	-	-	2462	11	98.7	1.01	10.5	9	8.81	1.48	0.071	N/A	0.106	1.6	<0.4 w/kg
Body	Top	0	Battery	11b	1Tx	1ST	1	-	-	2412	1	98.7	1.01	10.5	9	8.94	1.43	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11b	1Tx	1ST	1	-	-	2437	6	98.7	1.01	10.5	9	8.69	1.52	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11b	1Tx	1ST	1	-	-	2462	11	98.7	1.01	10.5	9	8.81	1.48	0.01	N/A	0.015	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11g	1Tx	1ST	6	-	-	2462	11	98	1.02	10.5	9	8.79	1.48	0.108	N/A	0.163	1.6	<0.4 w/kg

* (KDB 248227 D01) When 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, SAR test of OFDM mode was reduced.

OFDM mode	Maximum tune-up tolerance limit				OFDM scaled factor (b)/(a×100) [-]	DSSS worst reported SAR(1g) value	Estimated SAR value: OFDM [W/kg]	Exclusion limit [W/kg]	Standalone SAR test of OFDM mode require?
	DSSS		OFDM						
	[dBm]	[mW] (a)	[dBm]	[mW] (b)		[W/kg]			
11g	10.5	11.22	10.5	11.22	1.00	0.164	0.164	≤ 1.2	No
11n, 11ax	10.5	11.22	9.5	8.91	1.26	0.164	0.207	≤ 1.2	No

7.1.2 SAR measurement results (WLAN 5.2 GHz band)

RF Exposure condition	Setup position	Gap [mm]	Source power	Tx mode						Freq.		Duty [%]	Duty S/F [-]	Pmax [dBm]	Pset [-]	Pmeas [dBm]	Pwr. S/F [-]	SAR1g [W/kg] (*b)			Limit [W/kg]	Memo
				mode	Tx	Stream	D/R [Mbps]	RU	index	[MHz]	CH							Meas.	Δsar(*a)	Report		
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5180	36	98.2	1.02	9	8	7.33	1.47	0.095	N/A	0.142	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5220	44	98.2	1.02	9	8	7.84	1.31	0.106	N/A	0.142	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5240	48	98.2	1.02	9	8	7.95	1.27	0.119	N/A	0.154	1.6	<0.4 w/kg
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5180	36	98.2	1.02	9	8	7.33	1.47	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5220	44	98.2	1.02	9	8	7.84	1.31	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5240	48	98.2	1.02	9	8	7.95	1.27	0.075	N/A	0.097	1.6	<0.4 w/kg
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5180	36	98.2	1.02	9	8	7.33	1.47	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5220	44	98.2	1.02	9	8	7.84	1.31	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5240	48	98.2	1.02	9	8	7.95	1.27	0.004	N/A	0.005	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5180	36	97.9	1.02	9	8	7.67	1.36	0.098	N/A	0.136	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5220	44	97.9	1.02	9	8	8.11	1.23	0.121	N/A	0.152	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5240	48	97.9	1.02	9	8	8.21	1.2	0.114	N/A	0.14	1.6	<0.4 w/kg
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5180	36	97.9	1.02	9	8	7.67	1.36	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5220	44	97.9	1.02	9	8	8.11	1.23	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5240	48	97.9	1.02	9	8	8.21	1.2	0.068	N/A	0.083	1.6	<0.4 w/kg
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5180	36	97.9	1.02	9	8	7.67	1.36	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5220	44	97.9	1.02	9	8	8.11	1.23	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5240	48	97.9	1.02	9	8	8.21	1.2	0.002	N/A	0.002	1.6	<0.4 w/kg

7.1.3 SAR measurement results (WLAN 5.3 GHz band)

RF Exposure condition	Setup position	Gap [mm]	Source power	Tx mode						Freq.		Duty [%]	Duty S/F [-]	Pmax [dBm]	Pset [-]	Pmeas [dBm]	Pwr. S/F [-]	SAR1g [W/kg] (*b)			Limit [W/kg]	Memo
				mode	Tx	Stream	D/R [Mbps]	RU	index	[MHz]	CH							Meas.	Δsar(*a)	Report		
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5260	52	98.2	1.02	9	8	7.64	1.37	0.104	N/A	0.145	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5300	60	98.2	1.02	9	8	7.68	1.36	0.132	N/A	0.183	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5320	64	98.2	1.02	9	8	7.82	1.31	0.141	N/A	0.188	1.6	<0.4 w/kg
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5260	52	98.2	1.02	9	8	7.64	1.37	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5300	60	98.2	1.02	9	8	7.68	1.36	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5320	64	98.2	1.02	9	8	7.82	1.31	0.074	N/A	0.099	1.6	<0.4 w/kg
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5260	52	98.2	1.02	9	8	7.64	1.37	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5300	60	98.2	1.02	9	8	7.68	1.36	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5320	64	98.2	1.02	9	8	7.82	1.31	0.005	N/A	0.007	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5260	52	97.9	1.02	9	8	7.75	1.33	0.116	N/A	0.157	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5300	60	97.9	1.02	9	8	7.99	1.26	0.141	N/A	0.181	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5320	64	97.9	1.02	9	8	8.21	1.2	0.149	N/A	0.182	1.6	<0.4 w/kg
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5260	52	97.9	1.02	9	8	7.75	1.33	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5300	60	97.9	1.02	9	8	7.99	1.26	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5320	64	97.9	1.02	9	8	8.21	1.2	0.087	N/A	0.106	1.6	<0.4 w/kg
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5260	52	97.9	1.02	9	8	7.75	1.33	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5300	60	97.9	1.02	9	8	7.99	1.26	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5320	64	97.9	1.02	9	8	8.21	1.2	0.005	N/A	0.006	1.6	<0.4 w/kg

7.1.4 SAR measurement results (WLAN 5.6 GHz band)

RF Exposure condition	Setup position	Gap [mm]	Source power	Tx mode						Freq.		Duty [%]	Duty S/F [-]	Pmax [dBm]	Pset [-]	Pmeas [dBm]	Pwr. S/F [-]	SAR1g [W/kg] (*b)			Limit [W/kg]	Memo
				mode	Tx	Stream	D/R [Mbps]	RU	index	[MHz]	CH							Meas.	Δsar(*a)	Report		
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5500	100	98.2	1.02	9	8	8.48	1.13	0.186	N/A	0.214	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5600	120	98.2	1.02	9	8	8.1	1.23	0.119	N/A	0.149	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5700	140	98.2	1.02	9	8	7.65	1.36	0.099	N/A	0.137	1.6	<0.4 w/kg
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5500	100	98.2	1.02	9	8	8.48	1.13	0.09	N/A	0.104	1.6	<0.4 w/kg
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5600	120	98.2	1.02	9	8	8.1	1.23	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5700	140	98.2	1.02	9	8	7.65	1.36	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5500	100	98.2	1.02	9	8	8.48	1.13	0.01	N/A	0.012	1.6	<0.4 w/kg
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5600	120	98.2	1.02	9	8	8.1	1.23	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5700	140	98.2	1.02	9	8	7.65	1.36	Exempt	N/A	N/A	1.6	-
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5500	100	97.9	1.02	9	8	8.71	1.07	0.186	N/A	0.203	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5600	120	97.9	1.02	9	8	8.22	1.2	0.13	N/A	0.159	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5700	140	97.9	1.02	9	8	7.55	1.4	0.115	N/A	0.164	1.6	<0.4 w/kg
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5500	100	97.9	1.02	9	8	8.71	1.07	0.09	N/A	0.098	1.6	<0.4 w/kg
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5600	120	97.9	1.02	9	8	8.22	1.2	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5700	140	97.9	1.02	9	8	7.55	1.4	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5500	100	97.9	1.02	9	8	8.71	1.07	0.008	N/A	0.009	1.6	<0.4 w/kg
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5600	120	97.9	1.02	9	8	8.22	1.2	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5700	140	97.9	1.02	9	8	7.55	1.4	Exempt	N/A	N/A	1.6	-

7.1.5 SAR measurement results (WLAN 5.8 GHz band)

RF Exposure condition	Setup position	Gap [mm]	Source power	Tx mode						Freq.		Duty [%]	Duty S/F [-]	Pmax [dBm]	Pset [-]	Pmeas [dBm]	Pwr. S/F [-]	SAR1g [W/kg] (*b)			Limit [W/kg]	Memo
				mode	Tx	Stream	D/R [Mbps]	RU	index	[MHz]	CH							Meas.	Δsar(*a)	Report		
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5745	149	98.2	1.02	9	8	7.95	1.27	0.125	N/A	0.162	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5785	157	98.2	1.02	9	8	7.53	1.4	0.125	N/A	0.179	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11a	1Tx	1ST	6	-	-	5825	165	98.2	1.02	9	8	7.22	1.51	0.138	N/A	0.213	1.6	<0.4 w/kg
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5745	149	98.2	1.02	9	8	7.95	1.27	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5785	157	98.2	1.02	9	8	7.53	1.4	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11a	1Tx	1ST	6	-	-	5825	165	98.2	1.02	9	8	7.22	1.51	0.074	N/A	0.114	1.6	<0.4 w/kg
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5745	149	98.2	1.02	9	8	7.95	1.27	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5785	157	98.2	1.02	9	8	7.53	1.4	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11a	1Tx	1ST	6	-	-	5825	165	98.2	1.02	9	8	7.22	1.51	0.04	N/A	0.062	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5745	149	97.9	1.02	9	8	8.18	1.21	0.128	N/A	0.158	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5785	157	97.9	1.02	9	8	7.87	1.3	0.146	N/A	0.194	1.6	<0.4 w/kg
Body	Front-left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5825	165	97.9	1.02	9	8	7.59	1.38	0.156	N/A	0.22	1.6	<0.4 w/kg
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5745	149	97.9	1.02	9	8	8.18	1.21	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5785	157	97.9	1.02	9	8	7.87	1.3	Exempt	N/A	N/A	1.6	-
Body	Left	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5825	165	97.9	1.02	9	8	7.59	1.38	0.074	N/A	0.104	1.6	<0.4 w/kg
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5745	149	97.9	1.02	9	8	8.18	1.21	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5785	157	97.9	1.02	9	8	7.87	1.3	Exempt	N/A	N/A	1.6	-
Body	Top	0	Battery	11ax20	1Tx	1ST	MCS0	242	61	5825	165	97.9	1.02	9	8	7.59	1.38	0.019	N/A	0.027	1.6	<0.4 w/kg

- *. The highest Reported (scaled) SAR on each antenna are marked with yellow marker (x.xxx), respectively.
- *. Exempt: SAR test is exempted by evaluated SAR test exclusion SAR value.; Ant.: Antenna; D/R: Data rate; Freq.: Frequency; Duty: Duty cycle; D.S/F: Duty Scaling Factor; Pmax: Max power (Tune-up tolerance power); Pmeas.: Measurement conducted power; P.S/F: Power Scaling Factor; Meas.: Measurement; Appx: Appendix; Gap: It is separation distance between the device surface and the bottom outer surface of phantom; N/D.: No detected;
- *. All SAR tests were conservatively performed with test separation distance 0 mm.
- *. During SAR test, the radiated power is always monitored by Spectrum Analyzer or/and MAIA. Before test, the battery was full charged.

*a. Since the calculated ΔSAR values of the tested liquid had shown positive correction even when error was more than 5 %, the measured SAR was not converted by ΔSAR correction.

Calculating formula: ΔSAR corrected SAR (W/kg) = (Measured SAR (W/kg)) × (100 - (ΔSAR(%))) / 100, when ΔSAR shows negative sign.

*b. Calculating formula: Reported (Scaled) SAR (W/kg) = (Measured SAR (W/kg)) × (Duty scaled factor) × (Power scaled factor)
where, Duty scaled factor (D.S/F) [-] = 100(%) / (measured duty cycle, %), Power scaled factor (P.S/F) [-] = $10^{((\text{Max.power, dBm}) - (\text{Measured power, dBm})) / 10}$

7.2 Simultaneous transmission (including Co-location) evaluation

Result: Simultaneous transmission SAR complied to SUM of the SAR(1g) is ≤ 1.6 W/kg.

*. The table below shows the combinations of transmissions (as “worst case”) that can be sent simultaneously from antenna(s).

Use cases	SAR [W/kg]			SUM SAR [W/kg] (Limit: 1.6 W/kg)
	BT	WLAN 2.4 GHz	WLAN 5 GHz	
BT + WLAN 5 GHz	0.06	N/A	0.22	0.28

*. WLAN and Bluetooth use same antenna. Therefore, simultaneously transmitted SAR was not considered for the WLAN 2.4 GHz band and Bluetooth. Simultaneously transmitted SAR was only considered for the WLAN 5 GHz band and Bluetooth.

*. For SAR measurement, simultaneous transmission SAR measurement (Volume Scan) is not required for antenna pair because the either sum of the SAR(1g) is < 1.6 W/kg.

7.3 SAR Measurement Variability (Repeated measurement requirement)

Result: Since all the measured SAR are less than 0.8 W/kg (SAR(1g)), the repeated measurement is not required.

7.4 Device holder perturbation verification (SAR)

Result: Since all the reported (scaled) SAR are less than 1.2 W/kg (SAR(1g)), the additional “device holder perturbation verification” measurement is not considered.

7.5 Requirements on the Uncertainty Evaluation

7.5.1 SAR Uncertainty Evaluation

Decision Rule

☒ Uncertainty is not included.

☐ Uncertainty is included.

*. The highest measured SAR(1g) is less than 1.5 W/kg and the highest measured SAR(10g) is less than 3.75 W/kg. Thus, per KDB Publication 865664 D01, the extended measurement uncertainty analysis described in IEEE Std.1528 is not required.

APPENDIX 2: Measurement data

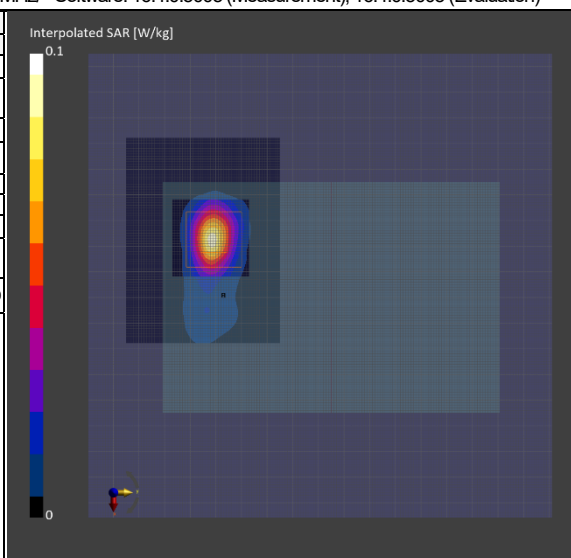
Appendix 2-1: Plot(s) of Worst Reported Exposure Value (in each operation band, on each antenna)

Plot D1:

Mode: BT LE (PHY1) CW (UID: 0 (CW)); Frequency: 2480.000 MHz; Test Distance: 0.00 mm
TSL parameters used: Head(v6); f= 2480.000 MHz; Conductivity: 1.85 S/m; Permittivity: 40.6

DASY8 Configuration: - Electronics: DAE4 - SN626 (Calibrated: 2026-01-08) / - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2161.; Phantom section: Flat
- Probe: EX3DV4 - SN3907 (Calibrated: 2026-01-09); ConvF: (6.6, 6.99, 6.77) @ 2480.000 MHz / - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)

Scan Setup				Measurement Results		
Setup items	Fast	Area	Zoom	Meas. Items	Area	Zoom
Grid Extents [mm]	180.0x120.0	60.0x80.0	30.0x30.0x30.0	psSAR 1 g [W/kg]	0.036	0.036
Grid Steps [mm]	10.0x10.0	10.0x10.0	5.0x5.0x1.5	psSAR 10 g [W/kg]	0.015	0.014
Sensor Distance [mm]	4.0	3.0	1.4	Power Drift [dB]	-0.03	0.14
Graded Grid	N/A	N/A	Yes	pSAR (extrapolated) [W/kg]	N/A	0.088
Grading Ratio	N/A	N/A	1.5	Power Scaling	Disabled	Disabled
MAIA monitored	N/A	Y	Y	TSL Correction	No correction	No correction
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p	M2/M1 [%]	N/A	75.8
Scan Method	Measured	Measured	Measured	Dist 3 dB Peak [mm]	N/A	7.3
Grid Effective [mm]	N/A	60.0x80.0	30.0x30.0x31.2	SAR 1 g Position (x,y,z)	N/A	-22.6, -0.7, -172.0



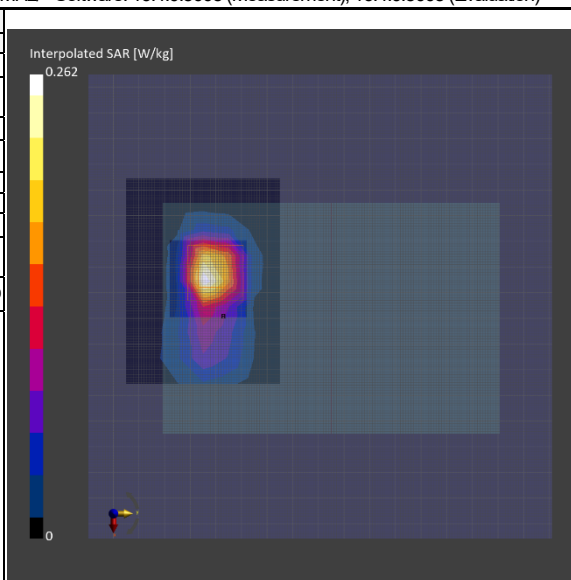
Remarks: * Order No.: 16113913; * Date tested: 2026-02-17; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
* Liquid temperature: 22.5 deg.C. ± 0.5 deg.C.; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; * Red cubic: big=SAR(10 g) / small=SAR(1 g)
* Project file name-Measurement Group: 260210-, 16113913.d8sar-58-2/17, ble1m, 2480m, front

Plot D2:

Mode: 11b (1 Mbps) CW (UID: 0 (CW)); Frequency: 2462.000 MHz; Test Distance: 0.00 mm
TSL parameters used: Head(v6); f= 2462.000 MHz; Conductivity: 1.84 S/m; Permittivity: 40.6

DASY8 Configuration: - Electronics: DAE4 - SN626 (Calibrated: 2026-01-08) / - Phantom: ELI V8.0 (20deg probe tilt); Serial: 2161.; Phantom section: Flat
- Probe: EX3DV4 - SN3907 (Calibrated: 2026-01-09); ConvF: (6.6, 6.99, 6.77) @ 2462.000 MHz / - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)

Scan Setup				Measurement Results		
Setup items	Fast	Area	Zoom	Meas. Items	Area	Zoom
Grid Extents [mm]	180.0x120.0	60.0x80.0	30.0x30.0x30.0	psSAR 1 g [W/kg]	0.106	0.110
Grid Steps [mm]	10.0x10.0	10.0x10.0	5.0x5.0x1.5	psSAR 10 g [W/kg]	0.046	0.044
Sensor Distance [mm]	4.0	3.0	1.4	Power Drift [dB]	-0.01	-0.02
Graded Grid	N/A	N/A	Yes	pSAR (extrapolated) [W/kg]	N/A	0.262
Grading Ratio	N/A	N/A	1.5	Power Scaling	Disabled	Disabled
MAIA monitored	N/A	Y	Y	TSL Correction	No correction	No correction
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p	M2/M1 [%]	N/A	75.3
Scan Method	Measured	Measured	Measured	Dist 3 dB Peak [mm]	N/A	7.3
Grid Effective [mm]	N/A	60.0x80.0	30.0x30.0x31.2	SAR 1 g Position (x,y,z)	N/A	-17.2, -1.8, -172.0

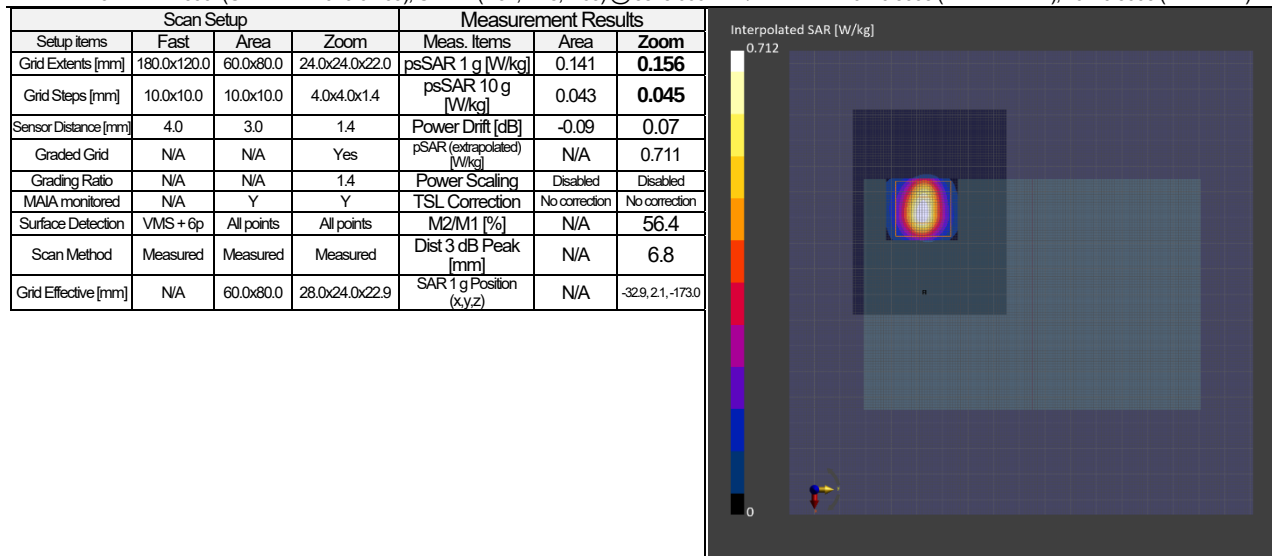


Remarks: * Order No.: 16113913; * Date tested: 2026-02-17; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
* Liquid temperature: 22.5 deg.C. ± 0.5 deg.C.; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; * Red cubic: big=SAR(10 g) / small=SAR(1 g)
* Project file name-Measurement Group: 260210-, 16113913.d8sar-52-2/17, 11b, 2462m, front

Plot D3:

Mode: 11ax20 (MCS0, OFDMA-RU242) CW (UID: 0 (CW)); Frequency: 5825.000 MHz ; Test Distance: 0.00 mm
TSL parameters used: Head(v6) ; f= 5825.000 MHz; Conductivity: 5.18 S/m; Permittivity: 35.1

DASY8 Configuration: - Electronics: DAE4 - SN626 (Calibrated: 2026-01-08) / - Phantom: ELI V8.0 (20deg probe tilt) ; Serial: 2161. ; Phantom section: Flat
- Probe: EX3DV4 - SN3907 (Calibrated: 2026-01-09); ConvF: (4.51, 4.78, 4.63) @ 5825.000 MHz/ - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)



Remarks: *. Order No.: 16113913 ;*. Date tested:2026-02-16 ; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
*. Liquid temperature: 22.5 deg.C. $\pm$ 0.5 deg.C. ; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; *. Red cubic: big=SAR(10 g) / small=SAR(1 g)
*. Project file name-Measurement Group: 260210-,16113913.d8sar-45-2/16,11ax,5825m, front

APPENDIX 3: Test instruments

Appendix 3-1: Equipment used

Test Name	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Calibration Interval (Month)
AT	236500	Attenuator	To-Conne Co., Ltd.	SA-PJ-10	-	2025/11/05	12
AT	145191	Coaxial Cable	Huber+Suhner	ST18/SMAm/SMAm/1000mm	-	2025/03/06	12
AT	169910	Power Meter	Keysight Technologies Inc	8990B	MY51000448	2025/05/21	12
AT	169911	Power sensor	Keysight Technologies Inc	N1923A	MY57270004	2025/05/21	12
AT	146223	Spectrum Analyzer	Keysight Technologies Inc	N9010A-526	MY48031482	2025/10/30	12
AT,SAR	191844	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2025/08/14	12
SAR	224032	6-axis Robot	Schmid&Partner Engineering AG	TX2-60L spe	F/22/0033789/A/001	2025/08/05	12
SAR	224031	DASY8 Module SAR/APD soft	Schmid&Partner Engineering AG	ver.16.4.0.5005	9-2506F07D ver.16.4.0.5005	-	-
SAR	224020	DASY8 PC	Hewlett Packard	HP Z4 G4 Workstation	CZC1198G21	-	-
SAR	144944	Data Acquisition Electronics	Schmid&Partner Engineering AG	DAE4	626	2026/01/08	12
SAR	145596	Device holder	Schmid&Partner Engineering AG	Mounting device for transmitter	-	2025/08/05	12
SAR	268465	Dil water	MonotaRo	34557433	-	-	-
SAR	144886	Dielectric assessment kit soft	Schmid&Partner Engineering AG	DAK ver.3.0.6.72	9-0EE103A4 ver.3.0.6.72	-	-
SAR	145500	Dielectric probe	Schmid&Partner Engineering AG	DAK3.5	1129	2026/01/07	12
SAR	201967	Digital thermomoter	HANNA	Checktemp-4	A01440226111	2025/08/14	12
SAR	201968	Digital thermomoter	HANNA	Checktemp-4	A01310946111	2025/08/14	12
SAR	145090	Dipole Antenna	Schmid&Partner Engineering AG	D2450V2	822	2026/01/09	12
SAR	145091	Dipole Antenna	Schmid&Partner Engineering AG	D5GHzV2	1070	2026/01/08	12
SAR	146235	Dosimetric E-Field Probe	Schmid & Partner Engineering AG	EX3DV4	3907	2026/01/09	12
SAR	224026	Electro-Optical Converter	Schmid & Partner Engineering AG	EOC8-60	1027	-	-
SAR	224034	Flat Phantom	Schmid&Partner Engineering AG	ELI V8.0	2161	2025/08/18	12
SAR	255189	Head Tissue Simulating Liquid	Schmid&Partner Engineering AG	HBBL600-10000V6	SL AAH U16 BC	-	-
SAR	224027	Light Beam Unit	Schmid & Partner Engineering AG	LIGHTBEAM-85	2069	-	-
SAR	224025	Measurement Server	Schmid & Partner Engineering AG	DASY8 Measurement Server	10042	2026/01/28	12
SAR	224028	Modulation & Audio Interference Analyser	Schmid & Partner Engineering AG	MAIA	1582	-	-
SAR	225155	Mounting Platform	Schmid & Partner Engineering AG	MP8E-TX2-60L Basic	-	-	-
SAR	146258	Network Analyzer	Keysight Technologies Inc	8753ES	US39171777	2025/10/07	12
SAR	255474	Primepure Ethanol	Kanto Chemical Co., Inc.	14032-79	-	-	-
SAR	230872	RF Power Source	Schmid&Partner Engineering AG	POWERSOURCE1	4300	2026/01/06	12
SAR	224023	Robot Controller	Schmid & Partner Engineering AG	CS9spe-TX2-60	F/22/0033789/C/001	-	-
SAR	145106	Ruler(150mm,L)	SHINWA	12103	-	2026/02/02	12
SAR	145086	Ruler(300mm)	SHINWA	13134	-	2026/02/02	12
SAR	227155	SP2 Manual Control Pendant	Schmid&Partner Engineering AG	D21144507 C	22066839	-	-
SAR	146176	Spectrum Analyzer	ADVANTEST	R3272	101100994	-	-
SAR	144986	Thermo-Hygrometer data logger	SATO KERYOKI	SK-L200THlla/SK-LTHlla-2	015246/08169	2025/08/14	12
SAR	238557	Thermo-Hygrometer data logger	A&D Company	AD-5696	990127766	2025/08/14	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test Item:

- AT: Antenna terminal conducted test,
- SAR: Specific Absorption Rate

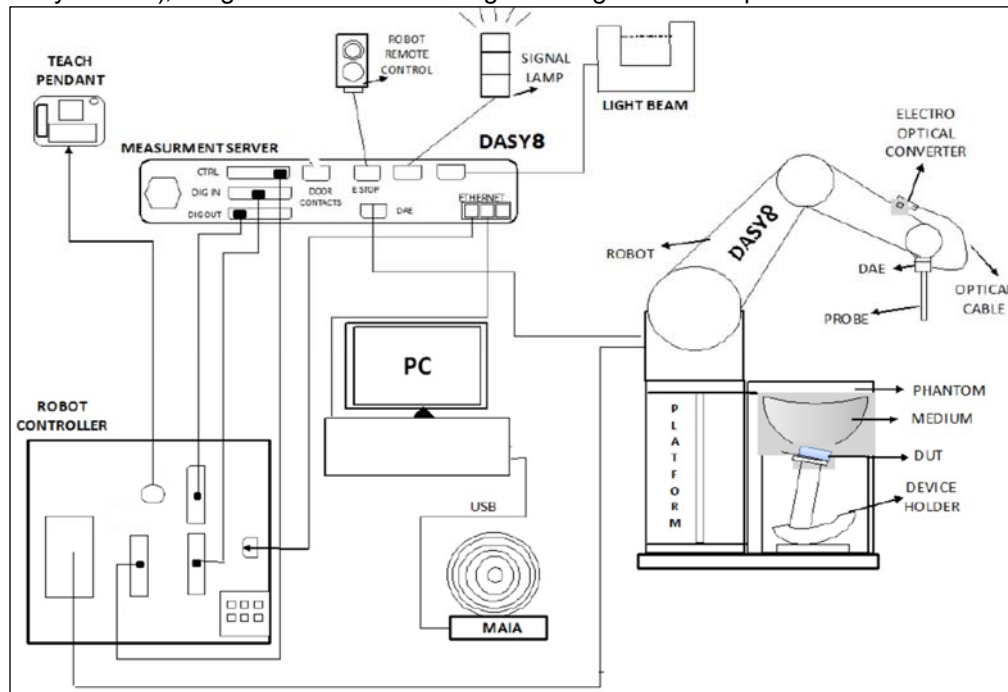
End of Report

*LIMS ID: 255474, the parameters of primepure Ethanol (as reference liquid) used for the simulated tissue parameter confirmation was defined the NPL Report MAT23

Appendix 3-2: Measurement System

Appendix 3-2-1: SAR Measurement System

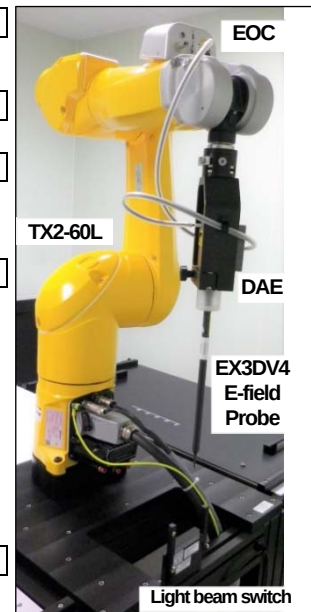
These measurements were performed with the automated near-field scanning system DASY8 from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision robot, which positions the probes with a positional repeatability of better than ± 0.03 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit. The SAR measurements were conducted with the dosimetry probes EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.



The DASY8 SAR/APD system for performing compliance tests consist of the following items:

- 6-axis robotic arm (Stäubli TX2-60L) for positioning the probe
- Mounting Platform for keeping the phantoms at a fixed location relative to the robot
- Measurement Server for handling all time-critical tasks, such as measurement data acquisition and supervision of safety features
- EOC (Electrical to Optical Converter) for converting the optical signal from the DAE to electrical before being transmitted to the measurement server
- LB (Light-Beam unit) for probe alignment (measurement of the exact probe length and eccentricity)
- SAR probe (EX3DV4 probes) for measuring the E-field distribution in the phantom. The SAR distribution and the psSAR (peak spatial averaged SAR) are derived from the E-field measurement.
- SAR phantom that represents a physical model with an equivalent human anatomy. A Specific Anthropomorphic Mannequin (SAM) head is usually used for handheld devices, and a Flat phantom is used for body-worn devices.
- TSL (Tissue Simulating Liquid) representing the dielectric properties of used tissue, e.g. Head Simulating Liquid, HSL.
- DAE (Data Acquisition Electronics) for reading the probe voltages and transmitting it to the DASY8 PC.
- Device Holder for positioning the DUT beneath the phantom.
- MAIA (Modulation and Interference Analyzer) for confirming the accuracy of the probe linearization parameters
- Operator PC for running the DASY8 software to define/execute the measurements
- System validation kits for system check/validation purposes.

Platforms The platform is a multi-phantom support structure made of a wood and epoxy composite ($\epsilon = 3.3$ and loss tangent $\delta < 0.07$). It is a strong and rigid structure transparent to electric and magnetic fields (nonmetallic components).
TX2-60L robot, CS9 robot controller •Number of Axes : 6 •Repeatability : ± 0.03 mm •Manufacture : Stäubli
DASY8 Measurement server The DASY8 Measurement Server handles all time critical tasks such as acquisition of measurement data, detection of phantom surface, control of robot movements, supervision of safety features. •Manufacture : Schmid & Partner Engineering AG
Data Acquisition Electronic (DAE) The DAE is used to acquire the probe sensor voltages and transfer them to the DASY8 Measurement Server, and to report mechanical surface detection and probe collisions. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter, and a command decoder with a control logic unit. Transmission to the DASY8 Measurement Server is accomplished through an optical downlink for data and status information and an optical uplink for commands and the clock. The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts used for mechanical surface detection and probe collision detection. •Measurement Range : 1 μ V to > 200 mV (2 range settings: 4 mV (low), 400 mV (high)) •Input Offset voltage : < 1 μ V (with auto zero) •Input Resistance : 200 M Ω •Battery operation : > 10 hrs. (with two rechargeable 9 V battery) •Manufacture : Schmid & Partner Engineering AG
Electro-Optical Converter (EOC8-TX2-60L) The Electrical to Optical Converter (EOC8) supports as data exchange between the DAE and the measurement server (optical connector) and data acquisition based on Ethernet protocol. •Manufacture : Schmid & Partner Engineering AG
Light Beam Switch The light beam unit allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm, as well as the probe length and the horizontal probe offset, are measured. The software then corrects all movements within the measurement jobs, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. •Manufacture : Schmid & Partner Engineering AG
SAR measurement software •Software version : Refer to Appendix 3-1 (Equipment used) •Manufacture : Schmid & Partner Engineering AG
E-Field Probe •Model : EX3DV4 •Frequency: 4 MHz to 10 GHz, Linearity: ± 0.2 dB (30 MHz to 10 GHz) •Construction : Symmetrical design with triangular core, Built-in shielding against static charges, PEEK enclosure material (resistant to organic solvents, e.g., DGBE). •CF : Refer to calibration data of Appendix. (CF: Conversion Factors) •Directivity : ± 0.1 dB in TSL (rotation around probe axis) / ± 0.3 dB in TSL (rotation normal to probe axis) •Dynamic Range : 10 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g) •Dimension : Overall length: 330 mm (Tip: 20 mm) / Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1mm •Application : High precision dosimetric measurement 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 %. •Manufacture : Schmid & Partner Engineering AG
ELI Phantom The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 standard and all known tissue simulating liquids. ELI V8.0 phantom shell has optimized pretension in the bottom surface during production, such that the phantom is more robust and with reduced sagging. •Model Number : ELI V8.0 flat phantom •Shell Material : Vinyl ester, fiberglass reinforced (VE-GF) •Shell Thickness : 2.0 ± 0.2 mm (bottom plate) •Dimensions : 600 mm $\times$ 400 mm (oval) (volume: Approx. 30 liters) •Manufacture : Schmid & Partner Engineering AG
Device Holder, Laptop holder, support material Accurate device positioning is crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards. The device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered. ☒ Device holder: In combination with the ELI phantom, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Transmitter devices can be easily and accurately positioned. The low-loss dielectric urethane foam was used for the mounting section of device holder. •Material : Polyoxymethylene (POM) •Manufacture: Schmid & Partner Engineering AG ☐ Laptop holder: A simple but effective and easy-to-use extension for the Mounting Device; facilitates testing of larger devices (e.g., laptops, cameras, etc.) according to IEC/IEEE 62209-1528. •Material : Polyoxymethylene (POM), PET-G, Foam •Manufacture: Schmid & Partner Engineering AG ☒ Support form: Urethane foam



Data storage and evaluation (post processing)

The uplink signal transmitted by the DUT is measured inside the TSL by the probe, which is accurately positioned at a precisely known distance and with a normal orientation with respect to the phantom surface. The dipole / loop sensors at the probe tips pick up the signal and generate a voltage, which is measured by the voltmeter inside the DAE. The DAE returns digital values, which are converted to an optical signal and transmitted via the EOC to the measurement server. The data is finally transferred to the DASY8 software for further post processing. In addition, the DASY8 software periodically requests a measurement with short-circuited inputs from the DAE to compensate the amplifier offset and drift. This procedure is called DAE zeroing.

The operator has access to the following low level measurement settings:

- the integration time is the voltage acquisition time at each measurement point. It is typically 0.5 s.
- the zeroing period indicates how often the DAE zeroing is performed.

In parallel, the MAIA measures the characteristics of the uplink signal via the air interface and sends this information to the DASY8 software, which compares them to the communication system defined by the operator. A warning is issued if any difference is detected.

The measurement data is now acquired and can be post processed to compute the psSAR1g /8g /10g.

The measured voltages are not directly proportional to SAR and must be linearized. The formulas below are based on [1] (*1).

The measured voltage is first linearized using the (a, b, c, d) set of parameters specific to the communication system and sensor:

$$V_{comp i} = U_i + U_i^2 \cdot \frac{10^{\frac{d}{10}}}{d_{cp i}}$$

with $V_{comp i}$	= compensated voltage of channel i (μV)	(i = x,y,z)
U_i	= input voltage of channel i (μV)	(i = x,y,z)
d	= PMR factor d (dB)	(Probe parameter)
$d_{cp i}$	= diode compression point of channel i (μV)	(Probe parameter, i = x,y,z)

$$V_{comp i \text{ dB}\sqrt{\mu V}} = 10 \cdot \log_{10}(V_{comp i})$$

$$corr_i = a_i \cdot e^{-\left(\frac{b_i - 10 \log_{10}(V_{comp i})}{c_i}\right)^2}$$

with $corr_i$	= correction factor of channel i (dB)	(i = x,y,z)
$V_{comp i \text{ dB}\sqrt{\mu V}}$	= compensated voltage of channel i (dB√μV)	(i = x,y,z)
a_i	= PMR factor a of channel i (dB)	(Probe parameter, i = x,y,z)
b_i	= PMR factor b of channel i (dB√μV)	(Probe parameter, i = x,y,z)
c_i	= PMR factor c of channel i (-)	(Probe parameter, i = x,y,z)

The voltage $V_{i \text{ dB}\sqrt{\mu V}}$ is the linearized voltage in dB√μV:

$$V_{i \text{ dB}\sqrt{\mu V}} = V_{comp i \text{ dB}\sqrt{\mu V}} - corr_i$$

with $V_{i \text{ dB}\sqrt{\mu V}}$	= linearized voltage of channel i (dB√μV)	(i = x,y,z)
$V_{comp i \text{ dB}\sqrt{\mu V}}$	= compensated voltage of channel i (dB√μV)	(i = x,y,z)
$corr_i$	= PMR factor a of channel i (dB)	(i = x,y,z)

Finally, the linearized voltage is converted in μV :

$$V_i = 10^{\frac{V_{i \text{ dB}\sqrt{\mu V}}}{10}}$$

with V_i	= linearized voltage of channel i (μV)	(i = x,y,z)
$V_{comp i \text{ dB}\sqrt{\mu V}}$	= linearized voltage of channel i (dB√μV)	(i = x,y,z)

The Field data for each channel are calculated using the linearized voltage:

$$\text{E-field probes: } E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

with V_i	= linearized voltage of channel i in μV	(i = x,y,z)
$Norm_i$	= sensor sensitivity of channel i in μV/(V/m) ² for E-field Probes	(i = x,y,z)
$ConvF$	= sensitivity enhancement in solution	
E_i	= electric field strength of channel i in V/m	(i = x,y,z)

The RMS value of the field components gives the total field strength (Hermitian magnitude) :

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The E-field data value is used to calculate SAR :

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR	= local specific absorption rate in mW/g
E_{tot}	= total field strength in V/m
σ	= conductivity in [Ω/m] or [S/m]
ρ	= equivalent tissue density in g/cm ³

Note: The resulting linearized voltage is only approximated because the probe UID is used 0 (CW) for the test signal in this test report.

(*1) [1] Jagadish Nadakuduti, Sven Kuehn, Marcel Fehr, Mark Douglas Katja Pokovic and Niels Kuster, "The Effect of Diode Response of electromagnetic Field Probes for the Measurements of Complex Signals." IEEE Transactions on Electromagnetic Compatibility, vol. 54, pp. 1195–1204, Dec. 2012.

Appendix 3-2-2: SAR system check results

*. Prior to the SAR assessment of EUT, the Daily check was performed to test whether the SAR system was operating within its target of $\pm 10\%$. The Daily check results are in the table below.

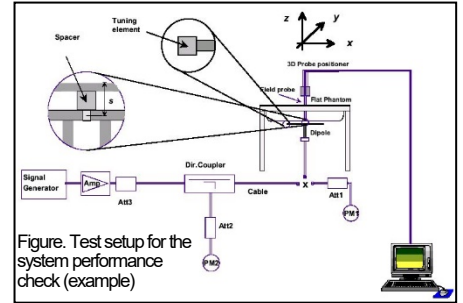
Liquid type: Head		Liq.		Δ SAR		P.in	SAR (1g) [W/kg] (*b)							SAR (10g) [W/kg] (*b)						
Date	Freq.	Meas.		1g	10g		Meas.	1W	Target (*c)	Dev.[%]	Pass			Meas.	1W	Target (*c)	Dev.[%]	Pass		
	[MHz]	date	[%]	[%]	[dBm]		(*a)	scaled	CAL.	STD	CAL.	STD	?	(*a)	scaled	CAL.	STD	Cal.	STD	?
2026-02-10	5250	02-10	-0.1	-0.2	16.99		4.2	84.1	80.5	77.6	4.5	8.4	Pass	1.19	23.8	22.9	21.9	3.9	8.7	Pass
2026-02-12	5600	02-12	0.1	0.1	17		4.05	80.7	81.6	81.5	-1.1	-1.0	Pass	1.19	23.7	23.3	22.9	1.7	3.5	Pass
2026-02-16	5800	02-16	0.2	0.2	17		3.83	76.3	81.4	78	-6.3	-2.2	Pass	1.13	22.5	23.1	21.9	-2.6	2.7	Pass
2026-02-17	2450	02-16	0	-0.1	17.01		2.58	51.4	52.2	52.4	-1.5	-1.9	Pass	1.21	24.1	24.6	24	-2.0	0.4	Pass

*. Freq.: Frequency, Meas.: Measurement, CAL.: Value of Calibration, STD: Value of Standard, Dev. Deviation.

*a. The Measured SAR/ value is obtained at 17 dBm (50 mW).

*b. The measured SAR value of Daily check was compensated for tissue dielectric deviations (Δ SAR) and scaled to 1W of output power in order to compare with the manufacture's calibration target value which was normalized.
 Δ SAR corrected SAR (1g) (W/kg) = (Measured SAR(1g) (W/kg)) $\times$ (100 - (Δ SAR1g(%)) / 100
 Δ SAR corrected SAR (10g,8g) (W/kg) = (Measured SAR(10g,8g) (W/kg)) $\times$ (100 - (Δ SAR10g(%)) / 100

*c. The "CAL." target value is a parameter defined in the calibration data.
 (2.45, 5.8 GHz) The "STD" target value (normalized to 1 W) is defined in IEEE Std.1528.
 (5.25, 5.6, 6.5 GHz) The "STD" target value (normalized to 1W) (which are reference purpose) was obtained by linear interpolation of two adjacent frequencies described in IEC/IEEE 62209-1528.



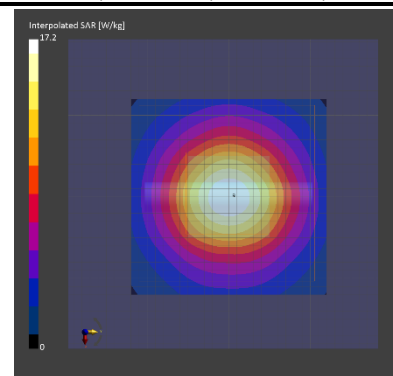
Appendix 3-2-3: SAR system check measurement data



Dipole: D5GHzV2 - SN1070 ; Mode: CW(0) ; Frequency: 5250.000 MHz ; Test Distance: 10 mm (dipole to liquid); Power setting: 17.0 dBm
 TSL parameters used: Head(v6) ; F: 5250.000 MHz; Conductivity: 4.62 S/m; Permittivity: 36.3

DASY8 Configuration: - Electronics: DAE4 - SN626(Calibrated:2026-01-08)/ - Phantom: ELI V8.0 (20deg probe tilt) ; Serial: 2161 ; Phantom section: Flat
 - Probe: EX3DV4 - SN3907(Calibrated: 2026-01-09); ConvF: (4.92, 5.21, 5.04) @ 5250.000 MHz/ - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)

Scan Setup				Measurement Results		
Setup Items	Fast	Area	Zoom	Meas. Items	Area	Zoom
Grid Extents [mm]	40.0x80.0	40.0x80.0	24.0x24.0x22.0	psSAR 1 g [W/kg]	3.89	4.20
Grid Steps [mm]	10.0x10.0	10.0x10.0	4.0x4.0x1.4	psSAR 10 g [W/kg]	1.11	1.19
Sensor Distance [mm]	4.0	3.0	1.4	Power Drift [dB]	-0.00	0.01
Graded Grid	N/A	N/A	Yes	pSAR (extrapolated) [W/kg]	N/A	17.2
Grading Ratio	N/A	N/A	1.4	Power Scaling	Disabled	Disabled
MAIA monitored	N/A	Y	Y	TSL Correction	No correction	No correction
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p	M2/M1 [%]	N/A	62.2
Scan Method	Measured	Measured	Measured	Dist 3 dB Peak [mm]	N/A	7.2
Grid Effective [mm]	N/A	40.0x80.0	24.0x24.0x22.9	psSAR 8 g [W/kg]	1.28	1.41
				PD 1 cm ² -sq. [W/m ²]	N/A	N/A
				PD 4 cm ² -sq. [W/m ²]	N/A	N/A

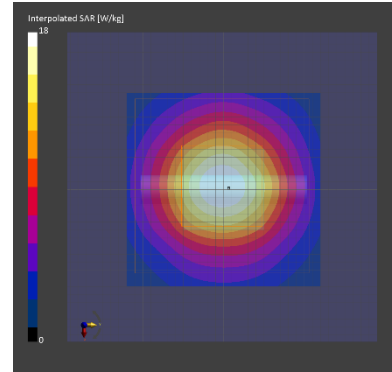


Remarks: *. Order No.: ; *. Date tested:2026-02-10; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
 *. Liquid temperature: 22.5 deg.C. $\pm$ 0.5 deg.C. ; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; *. Red cubic: big=SAR(10 g) / small=SAR(1 g)
 *. Project file name-Measurement Group: 260210_16113913.d8sar- SPC Measurement Group

Dipole: D5GHzV2 - SN1070 ; Mode: CW(0) ; Frequency: 5600.000 MHz ; Test Distance: 10 mm (dipole to liquid); Power setting: 17.0 dBm
TSL parameters used: Head(v6) ; f= 5600.000 MHz; Conductivity: 4.97 S/m; Permittivity: 35.6

DASY8 Configuration: - Electronics: DAE4 - SN626(Calibrated:2026-01-08) - Phantom: ELI V8.0 (20deg probe tilt) ; Serial: 2161 ; Phantom section: Flat
- Probe: EX3DV4 - SN3907(Calibrated: 2026-01-09); ConvF: (4.54, 4.81, 4.66) @ 5600.000 MHz/ - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)

Scan Setup				Measurement Results		
Setup Items	Fast	Area	Zoom	Meas. Items	Area	Zoom
Grid Extents [mm]	40.0x80.0	40.0x80.0	24.0x24.0x22.0	psSAR 1 g [W/kg]	4.01	4.05
Grid Steps [mm]	10.0x10.0	10.0x10.0	4.0x4.0x1.4	psSAR 10 g [W/kg]	1.14	1.19
Sensor Distance [mm]	4.0	3.0	1.4	Power Drift [dB]	0.03	-0.00
Graded Grid	N/A	N/A	Yes	pSAR (extrapolated) [W/kg]	N/A	18.0
Grading Ratio	N/A	N/A	1.4	Power Scaling	Disabled	Disabled
MAIA monitored	N/A	Y	Y	TSL Correction	No correction	No correction
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p	M2/M1 [%]	N/A	58.3
Scan Method	Measured	Measured	Measured	Dist 3 dB Peak [mm]	N/A	7.2
Grid Effective [mm]	N/A	40.0x80.0	24.0x24.0x22.9	psSAR 8 g [W/kg]	1.31	1.37
				PD 1 cm ² -sq. [W/m ²]	N/A	N/A
				PD 4 cm ² -sq. [W/m ²]	N/A	N/A

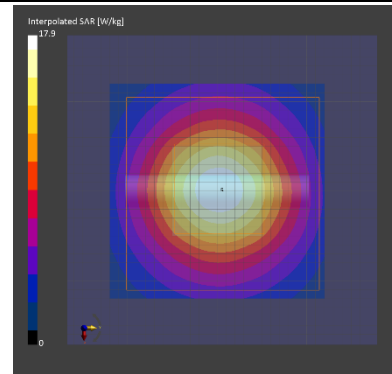


Remarks: * Order No.: 16113913 ; * Date tested:2026-02-12 ; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
* Liquid temperature: 22.5 deg.C. ± 0.5 deg.C. ; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; * Red cubic: big=SAR(10 g) / small=SAR(1 g)
* Project file name-Measurement Group: 260210-16113913.d8sar- SPC Measurement Group

Dipole: D5GHzV2 - SN1070 ; Mode: CW(0) ; Frequency: 5800.000 MHz ; Test Distance: 10 mm (dipole to liquid); Power setting: 17.0 dBm
TSL parameters used: Head(v6) ; f= 5800.000 MHz; Conductivity: 5.15 S/m; Permittivity: 35.1

DASY8 Configuration: - Electronics: DAE4 - SN626(Calibrated:2026-01-08) - Phantom: ELI V8.0 (20deg probe tilt) ; Serial: 2161 ; Phantom section: Flat
- Probe: EX3DV4 - SN3907(Calibrated: 2026-01-09); ConvF: (4.51, 4.78, 4.63) @ 5800.000 MHz/ - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)

Scan Setup				Measurement Results		
Setup Items	Fast	Area	Zoom	Meas. Items	Area	Zoom
Grid Extents [mm]	40.0x80.0	40.0x80.0	24.0x24.0x22.0	psSAR 1 g [W/kg]	3.42	3.83
Grid Steps [mm]	10.0x10.0	10.0x10.0	4.0x4.0x1.4	psSAR 10 g [W/kg]	0.999	1.13
Sensor Distance [mm]	4.0	3.0	1.4	Power Drift [dB]	-0.02	0.02
Graded Grid	N/A	N/A	Yes	pSAR (extrapolated) [W/kg]	N/A	17.9
Grading Ratio	N/A	N/A	1.4	Power Scaling	Disabled	Disabled
MAIA monitored	N/A	Y	Y	TSL Correction	No correction	No correction
Surface Detection	VMS + 6p	All points	All points	M2/M1 [%]	N/A	56.1
Scan Method	Measured	Measured	Measured	Dist 3 dB Peak [mm]	N/A	7.9
Grid Effective [mm]	N/A	40.0x80.0	24.0x24.0x22.9	psSAR 8 g [W/kg]	1.15	1.31
				PD 1 cm ² -sq. [W/m ²]	N/A	N/A
				PD 4 cm ² -sq. [W/m ²]	N/A	N/A

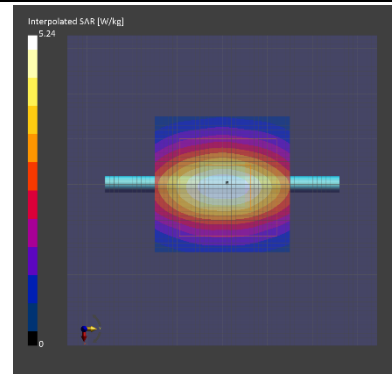


Remarks: * Order No.: 16113913 ; * Date tested:2026-02-16 ; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
* Liquid temperature: 22.5 deg.C. ± 0.5 deg.C. ; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; * Red cubic: big=SAR(10 g) / small=SAR(1 g)
* Project file name-Measurement Group: 260210-16113913.d8sar- SPC Measurement Group

Dipole: D2450V2 - SN822 ; Mode: CW(0) ; Frequency: 2450.000 MHz ; Test Distance: 10 mm (dipole to liquid); Power setting: 17.0 dBm
TSL parameters used: Head(v6) ; f= 2450.000 MHz; Conductivity: 1.83 S/m; Permittivity: 40.6

DASY8 Configuration: - Electronics: DAE4 - SN626(Calibrated:2026-01-08) - Phantom: ELI V8.0 (20deg probe tilt) ; Serial: 2161 ; Phantom section: Flat
- Probe: EX3DV4 - SN3907(Calibrated: 2026-01-09); ConvF: (6.6, 6.99, 6.77) @ 2450.000 MHz/ - Software: 16.4.0.5005 (Measurement); 16.4.0.5005 (Evaluation)

Scan Setup				Measurement Results		
Setup Items	Fast	Area	Zoom	Meas. Items	Area	Zoom
Grid Extents [mm]	40.0x80.0	40.0x80.0	30.0x30.0x30.0	psSAR 1 g [W/kg]	2.61	2.58
Grid Steps [mm]	10.0x10.0	10.0x10.0	5.0x5.0x1.5	psSAR 10 g [W/kg]	1.21	1.21
Sensor Distance [mm]	4.0	3.0	1.4	Power Drift [dB]	0.00	0.01
Graded Grid	N/A	N/A	Yes	pSAR (extrapolated) [W/kg]	N/A	5.24
Grading Ratio	N/A	N/A	1.5	Power Scaling	Disabled	Disabled
MAIA monitored	N/A	Y	Y	TSL Correction	No correction	No correction
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p	M2/M1 [%]	N/A	80.9
Scan Method	Measured	Measured	Measured	Dist 3 dB Peak [mm]	N/A	9.0
Grid Effective [mm]	N/A	40.0x80.0	30.0x30.0x31.2	psSAR 8 g [W/kg]	1.34	1.34
				PD 1 cm ² -sq. [W/m ²]	N/A	N/A
				PD 4 cm ² -sq. [W/m ²]	N/A	N/A



Remarks: * Order No.: 16113913 ; * Date tested:2026-02-17 ; Tested by: A. Oda; Tested location: UL Japan, Shonan EMC Lab. No.7 shielded room
* Liquid temperature: 22.5 deg.C. ± 0.5 deg.C. ; Ambient: (22 to 24) deg.C. / (50 to 70) %RH; * Red cubic: big=SAR(10 g) / small=SAR(1 g)
* Project file name-Measurement Group: 260210-16113913.d8sar- SPC Measurement Group

Appendix 3-3: Measurement Uncertainty

Uncertainty in the measured value of 1 g or 10 g psSAR from a DUT(2.4 GHz to 6 GHz)									
Symbol	Input quantity (source of uncertainty)	Unc. [%]	Dist	Div	ci (1 g)	ci (10 g)	ui(1 g) [%]	ui(10 g) [%]	
Measurement System Errors									
CF	Probe Calibration	± 13.1	N	2	1	1	± 6.55	± 6.55	
CFdrift	Probe Calibration Drift	± 1.7	R	1.73	1	1	± 0.98	± 0.98	
LIN	Probe Linearity	± 4.7	R	1.73	1	1	± 2.71	± 2.71	
BBS	Broadband Signal	± 2.6	R	1.73	1	1	± 1.50	± 1.50	
ISO	Probe Isotropy	± 7.6	R	1.73	1	1	± 4.39	± 4.39	
DAE	Other Probe+Electronic	± 1.2	N	1	1	1	± 1.20	± 1.20	
AMB	RF Ambient	± 1.8	N	1	1	1	± 1.80	± 1.80	
Asys	Probe Positioning	± 0.5	N	1	0.34	0.34	± 0.18	± 0.18	
DAT	Data Processing	± 2.3	N	1	1	1	± 2.31	± 2.31	
Phantom and Device Errors									
LIQ(σ)	Conductivity (meas.)	± 2.5	N	1	0.78	0.71	± 1.95	± 1.78	
LIQ(Tσ)	Conductivity (temp.)	± 1.6	R	1.73	0.78	0.71	± 0.72	± 0.66	
EPS	Phantom Permittivity	± 14.0	R	1.73	0.25	0.25	± 2.02	± 2.02	
DIS	Distance DUT – TSL	± 2.0	N	1	2	2	± 3.98	± 3.98	
Dxyz	Device Positioning	± 1.0	N	1	1	1	± 1.00	± 1.00	
H	Device Holder	± 3.6	N	1	1	1	± 3.60	± 3.60	
MOD	DUT Modulationm	± 2.4	R	1.73	1	1	± 1.39	± 1.39	
TAS	Time-average SAR	± 0.0	R	1.73	1	1	± 0.00	± 0.00	
RFdrift	DUT drift	± 4.7	N	2	1	1	± 2.35	± 2.35	
VAL	Val Antenna Unc.val	± 0.0	N	1	1	1	± 0.00	± 0.00	
RFin	Unc. Input Power val	± 0.0	R	1.73	1	1	± 0.00	± 0.00	
Correction to the SAR results									
C(ε, σ)	Deviation to Target	± 1.9	N	1	1	0.84	± 1.90	± 1.60	
C(R)	SAR scaling	± 0.0	R	1.73	1	1.0	± 0.00	± 0.00	
u(sAR)	Combined Uncertainty						± 11.5	± 11.4	
U	Expanded Uncertainty						± 23.0	± 22.8	

Uncertainty in the system check value of 1 g or 10 g psSAR(2.4 GHz to 6 GHz)									
Symbol	Input quantity (source of uncertainty)	Unc. [%]	Dist	Div	ci (1 g)	ci (10 g)	ui(1 g) [%]	ui(10 g) [%]	
Measurement System Errors									
CF	Probe Calibration	± 13.1	N	2	1	1	± 6.55	± 6.55	
CFdrift	Probe Calibration Drift	± 1.7	R	1.73	1	1	± 0.98	± 0.98	
LIN	Probe Linearity	± 4.7	R	1.73	1	1	± 2.71	± 2.71	
BBS	Broadband Signal	± 0.0	R	1.73	1	1	± 0.00	± 0.00	
ISO	Probe Isotropy	± 4.7	R	1.73	1	1	± 2.71	± 2.71	
DAE	Other Probe+Electronic	± 1.2	N	1	1	1	± 1.20	± 1.20	
AMB	RF Ambient	± 1.8	N	1	1	1	± 1.80	± 1.80	
Asys	Probe Positioning	± 0.5	N	1	0.34	0.34	± 0.18	± 0.18	
DAT	Data Processing	± 0.6	N	1	1	1	± 0.58	± 0.58	
Phantom and Device Errors									
LIQ(σ)	Conductivity (meas.)	± 2.5	N	1	0.78	0.71	± 1.95	± 1.78	
LIQ(Tσ)	Conductivity (temp.)	± 1.6	R	1.73	0.78	0.71	± 0.72	± 0.66	
EPS	Phantom Permittivity	± 14.0	R	1.73	0.25	0.25	± 2.02	± 2.02	
DIS	Distance DUT – TSL	± 2.0	N	1	2	2	± 4.08	± 4.08	
Dxyz	Device Positioning	± 0.0	N	1	0	0	± 0.00	± 0.00	
H	Device Holder	± 0.0	N	1	1	1	± 0.00	± 0.00	
MOD	DUT Modulationm	± 0.0	R	1.73	1	1	± 0.00	± 0.00	
TAS	Time-average SAR	± 0.0	R	1.73	1	1	± 0.00	± 0.00	
RFdrift	DUT drift	± 2.5	N	2	1	1	± 1.25	± 1.25	
VAL	Val Antenna Unc.val	± 3.2	N	1	1	1	± 3.20	± 3.20	
RFin	Unc. Input Power val	± 2.3	R	1.73	1	1	± 1.34	± 1.34	
Correction to the SAR results									
C(ε, σ)	Deviation to Target	± 1.9	N	1	1	0.84	± 1.90	± 1.60	
C(R)	SAR scaling	± 0.0	R	1.73	1	1	± 0.00	± 0.00	
u(sAR)	Combined Uncertainty						± 10.3	± 10.2	
U	Expanded Uncertainty						± 20.6	± 20.4	

- *. This uncertainty budget is suggested by IEC/IEEE 62209-1528 and determined by SPEAG, DASY8 Module SAR Manual.
- *. Table of uncertainties are listed for ISO/IEC 17025.
- *. Although this standard determines only the limit value of uncertainty, there is no applicable rule of uncertainty in this. Therefore, the results are derived depending on whether or not laboratory uncertainty is applied.