

Report No.: KSEM210700125001

Page: 1 of 53

SAR TEST REPORT

KSEM2107001250CR(SZCR2107022191AT) **Application No.:**

Applicant: SZ DJI Osmo Technology Co.,Ltd.

4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui **Address of Applicant:**

Road North, Guangming Street, Guangming District, Shenzhen

Manufacturer: SZ DJI Osmo Technology Co., Ltd.

4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Address of Manufacturer:

Road North, Guangming Street, Guangming District, Shenzhen

Product Name: DJI Action 2 Model No.(EUT): MC211

Trade mark: DJI

FCC ID: 2ANDR-MC2112021 FCC 47CFR §2.1093 Standard(s):

2021-07-26 **Date of Receipt:**

Date of Test: 2021-08-06 to 2021-08-09 & 2021-09-15 to 2021-09-17

Date of Issue: 2021-09-18

Test Result: Pass*

Eric Lin

Form fin

Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: KSEM210700125001

Page: 2 of 53

REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2021-09-18	/

Authorized for issue by:			
	Richard. Kong		
	Richard.Kong/ Project Engineer	-	
	Eric fri		
	Eric.Lin/Reviewer	-	



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Report No.: KSEM210700125001

Page: 3 of 53

TEST SUMMARY

Frequency Band	Maximum Reported SAR 1g (W/kg)	Maximum Reported SAR 1g (W/kg)	Maximum Reported SAR 10g (W/kg)	Verdict
	Head	Body	Limbs	
WI-FI (2.4GHz)	0.25	0.37	0.64	PASS
Bluetooth	0.16	0.29	0.21	PASS
WI-FI (5GHz)	0.17	0.26	0.57	PASS
SAR Limited(W/kg)	1.6	1.6	4.0	1



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Report No.: KSEM210700125001

Page: 4 of 53

CONTENTS

1	GENERAL INFORMATION	6
	1.1 GENERAL DESCRIPTION OF EUT	6
	1.2 TEST SPECIFICATION	
	1.3 RF EXPOSURE LIMITS	
	1.4 TEST LOCATION	
	1.5 Test Facility	
2		
3	SAR MEASUREMENTS SYSTEM CONFIGURATION	12
	3.1 THE SAR MEASUREMENT SYSTEM	
	3.2 ISOTROPIC E-FIELD PROBE EX3DV4	
	3.3 DATA ACQUISITION ELECTRONICS (DAE)	
	3.4 SAM TWIN PHANTOM	
	3.5 ELI PHANTOM	
	3.6 DEVICE HOLDER FOR TRANSMITTERS	
	3.7.1 Scanning procedure	
	3.7.2 Data Storage	
	3.7.3 Data Evaluation by SEMCAD	
4	·	
•		
	4.1 SAR MEASUREMENT VARIABILITY	
5	DESCRIPTION OF TEST POSITION	24
	5.1 THE HEAD TEST POSITION	
	5.1.1 SAM Phantom Shape	
	5.2 THE BODY TEST POSITION	25
6	SAR SYSTEM VERIFICATION PROCEDURE	26
	6.1 TISSUE SIMULATE LIQUID	26
	6.1.1 Recipes for Tissue Simulate Liquid	
	6.1.2 Test Liquids Confirmation	
	6.1.3 Measurement for Tissue Simulate Liquid	
	6.2 SAR SYSTEM CHECK	
	6.2.1 Justification for Extended SAR Dipole Calibrations	
	6.2.3 Detailed System Check Results	
7	•	
′		_
	7.1 OPERATION CONFIGURATIONS	
	7.1.1 WiFi Test Configuration	
8		
	8.1 MEASUREMENT OF RF CONDUCTED POWER	
	8.1.1 Conducted Power Of WIFI	
	MEASUREMENT OF SAR DATA	36



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Report No.: KSEM210700125001

Page: 5 of 53

	8.1.2	SAR Result Of WIFI 2.4GHz	36
	8.1.3	SAR Result Of WIFI 5GHz(U-NII-1)	37
	8.1.4	SAR Result Of WIFI 5GHz(U-NII-3)	38
	8.1.5	SAR Result Of BT	39
9	EQUIF	PMENT LIST	40
10	CALIE	BRATION CERTIFICATE	41
11	PHOT	OGRAPHS	41
APP	ENDIX	A: DETAILED SYSTEM CHECK RESULTS	42
APP	ENDIX	B: DETAILED TEST RESULTS	46
APP	ENDIX	C: CALIBRATION CERTIFICATE	50
APP	ENDIX	D: PHOTOGRAPHS	53



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Report No.: KSEM210700125001

Page: 6 of 53

1 General Information

1.1 General Description of EUT

Device Type :	portable device			
Exposure Category:	uncontrolled enviro	uncontrolled environment / general population		
Product Phase:	production unit			
SN:	4F3DJ5J0010993			
Hardware Version:	V1.0			
Software Version:	V01.00.00.00			
Antenna Type:	Slot Antenna			
Device Operating Configura	tions:			
Modulation Mode:	WIFI: CCK, DSSS	WIFI: CCK, DSSS, OFDM; BT: GFSK		
	Band	Tx (MHz)	Rx (MHz)	
	Wi-Fi 2.4GHz	2412~2462	2412~2462	
Frequency Bands:	WIFI(U-NII-1)	5150~5250	5150~5250	
	WIFI(U-NII-3)	5725~5850	5725~5850	
	Bluetooth	2402~2480	2402~2480	
	Normal Voltage :	DC3.85V		
Battery Information:	Rated capacity:	capacity: 2.23Wh		
	Manufacturer	SZ DJI Osmo Technology Co.,Ltd.		



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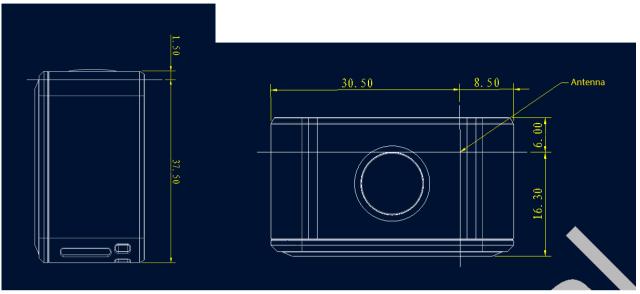
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Report No.: KSEM210700125001

Page: 7 of 53

DUT Antenna Locations



Length unit: mm

Note: The test device is an DJI Action 2. The display diagonal dimension is 49mm and the overall diagonal dimension of this device is 51mm.



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Report No.: KSEM210700125001

Page: 8 of 53

1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB447498 D01 General RF Exposure Guidance v06	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting v01r02	RF Exposure Compliance Reporting and Documentation Considerations
KDB 248227 D01v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS



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Report No.: KSEM210700125001

Page: 9 of 53

1.3 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Notes:

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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.)



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



Report No.: KSEM210700125001

Page: 10 of 53

1.4 Test Location

Company: Compliance Certification Services (Kun shan) Inc.

Address: No.10 Weive Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu,

China

Post code: 215300

Telephone: 86-512-57355888 Fax: 86-512-57370818

1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC –Designation Number: CN1172

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory

CAB Identifier: CN0072.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: : R-20134, R-11600,C-11707, T-11499, G-10216 respectively.



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Report No.: KSEM210700125001

Page: 11 of 53

2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized a	and in compliance with requirement of standards.	

Table 2: The Ambient Conditions



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Report No.: KSEM210700125001

Page: 12 of 53

3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



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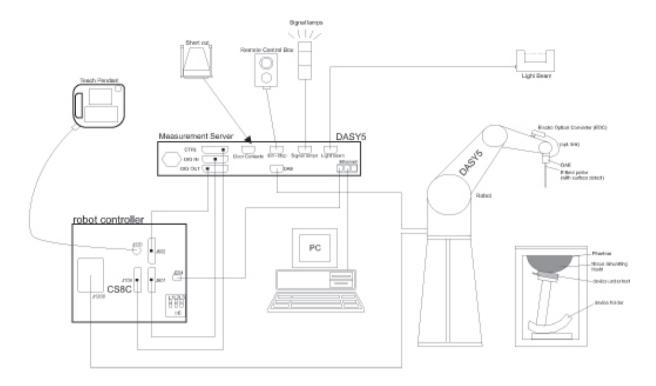
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Report No.: KSEM210700125001

Page: 13 of 53



F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validat the proper functioning of the system.



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Report No.: KSEM210700125001

Page: 14 of 53

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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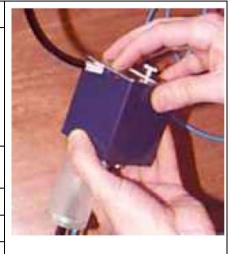


Report No.: KSEM210700125001

Page: 15 of 53

3.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5μV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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Report No.: KSEM210700125001

Page: 16 of 53

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	approx. 30 liters
Wooden Support	SPEAG standard phantom table



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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Report No.: KSEM210700125001

Page: 17 of 53

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =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.



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Report No.: KSEM210700125001

Page: 18 of 53

3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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Report No.: KSEM210700125001

Page: 19 of 53

			≤3 GHz	> 3 GHz
Maximum distance from (geometric center of pr			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle surface normal at the m			30° ± 1°	20° ± 1°
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan sp	atial resolu	ntion: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution in x or y dimension of the test dimeasurement point on the test.	on, is smaller than the above, must be ≤ the corresponding levice with at least one
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
grid $\Delta z_{Zoom}(n>1)$: between subsequent points			≤ 1.5·Δz	Zoom(n-1)
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 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.



Report No.: KSEM210700125001

Page: 20 of 53

3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factorDiode compression pointDcpi

Device parameters: - Frequency

Crest factor cf
 Media parameters: - Conductivity

- Density p

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:



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Report No.: KSEM210700125001

Page: 21 of 53

E-field probes:

 $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes:

 $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$

With Vi = compensated signal of channel i (i = x, y, z)

Normi = sensor sensitivity of channel I (i = x, y, z)

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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Report No.: KSEM210700125001

Page: 22 of 53

4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



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Report No.: KSEM210700125001

Page: 23 of 53

4.2 SAR measurement uncertainty

Measurements and results are all in compliance with the standards listed in this report. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The Expanded uncertainty (95% CONFIDENCE INTERVAL).

		Measu	rement uncerta	ainty evaluat	ion				
Α	b1	С	d	e=f(d,K)	f	g	i=C*g/e	i=C*g/e	k
Uncertainty Component	Section in P1528	Tol (%)	Prob. Dist	Div.	C _{i (1g)}	C _{i (10g)}	1-g ui(%)	10-g ui(%)	Vi (Veff)
Measurement System	1			1	ı		T.	1	
Probe Calibration (k=1)	E.2.1	6.3	N	1	1	1	6.30	6.30	∞
Axial Isotropy	E.2.2	0.5	R	√3	0.7	0.7	0.20	0.20	∞
Hemispherical Isotropy	E.2.2	2.6	R	√3	0.7	0.7	1.06	1.06	∞
Boundary Effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	∞
Linearity	E.2.4	0.6	R	√3	1	1	0.35	0.35	∞
System Detection LimitS	E.2.4	0.25	R	√3	1	1	0.14	0.14	∞
Modulation Response	E.2.5	2.4	R	√3	1	1	1.39	1.39	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.30	0.30	∞
Response Time	E.2.7	0.0	R	√3	1	1	0.00	0.00	∞
Integration Time	E.2.8	2.6	R	√3	1	1	1.50	1.50	∞
RF Ambient Condition-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
RF Ambient Condition- Reflections	E.6.1	3.0	R	√3	1	1	1.73	1.73	∞
Probe Positioning-Mechanical Tolerance	E.6.2	1.5	R	√3	1	1	0.87	0.87	∞
Probe Positioning-with Respect to Phantom	E.6.3	2.9	R	√3	1	1	1.67	1.67	∞
Max. SAR Evaluation	E.5	1.0	R	√3	1	1	0.58	0.58	∞
Test sample Related			1	1		1		1	
Test sample Positioning	E.4.2	3.7	N	1	1	1	3.70	3.70	9
Device Holder Uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output Power Variation-SAR Drift Measurement	E.2.9	5	R	√3	1	1	2.89	2.89	∞
Output Power Variation-SAR Drift Measurement	E.6.5	0	R	√3	1	1	0.00	0.00	∞
Phantom and Tissue Paramet	ers								
Phantom Uncertainty(Shape and Thickness Tolerances)	E.3.1	4	R	√3	1	1	2.31	2.31	∞
SAR Correction	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid Conductivity (Measurement Uncertainty)	E.3.3	0.06	N	1	0.78	0.71	0.05	0.043	5
Liquid Permittivity (Measurement Uncertainty)	E.3.3	-2.49	N	1	0.23	0.26	-0.57	-0.647	5
Liquid Conductivity (Temperature Uncertainty)	E.3.4	4.2	R	√3	0.78	0.71	1.89	1.72	∞
Liquid Permittivity ((Temperature Uncertainty)	E.3.4	3.7	R	√3	0.23	0.26	0.49	0.56	∞
Combined Standard Uncertainty				RSS			10.18	10.10	430
Expanded Uncertainty (95% Confidence Interval)				<i>k</i> =2			20.35%	20.20%	



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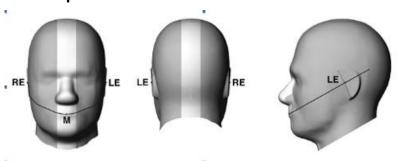
Report No.: KSEM210700125001

Page: 24 of 53

5 Description of Test Position

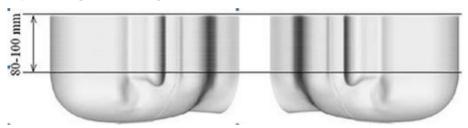
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

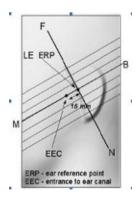


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

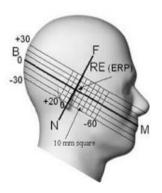
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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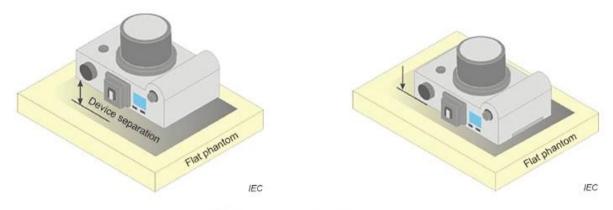
Report No.: KSEM210700125001

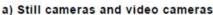
Page: 25 of 53

5.2 The Body Test Position

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01 for FCC can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.

Devices that are designed to operate on the body of users using lanyards and straps or without requiring additional body-worn accessories must be tested for SAR compliance using a conservative minimum test separation distance ≤ 5 mm to support compliance.







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Report No.: KSEM210700125001

Page: 26 of 53

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients		Frequency (MHz)									
(% by weight)	45	50	83	835		915		00	2450		
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2	
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5	
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78	

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%
Mineral oil: 11-18%
Emulsifiers: 9-15%
Sodium salt: 2-3%

Table 3: Recipe of Tissue Simulate Liquid



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Report No.: KSEM210700125001

Page: 27 of 53

6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Во	ody
(MHz)	ε _r	σ (S/m)	$\epsilon_{ m r}$	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ε_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)



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Report No.: KSEM210700125001

Page: 28 of 53

6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG Model DAK Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm2^{\circ}$ C.

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (℃)	Date
2450 Head	2450	1.806	38.232	1.80	39.20	0.33	-2.47	±5	22.0	2021/8/6
5250 Head	5250	4.844	36.853	4.71	35.95	2.85	2.51	±5	22.0	2021/8/9
5750 Head	5750	5.424	35.523	5.22	35.35	3.91	0.49	±5	22.0	2021/8/9

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (℃)	Date
2450 Head	2450	1.825	39.903	1.80	39.20	1.39	1.79	±5	22.0	2021/9/15
5250 Head	5250	4.767	36.011	4.71	35.95	1.21	0.17	±5	22.0	2021/9/17
5750 Head	5750	5.329	34.695	5.22	35.35	2.09	-1.85	±5	22.0	2021/9/17

Table 4: Measurement result of Tissue electric parameters



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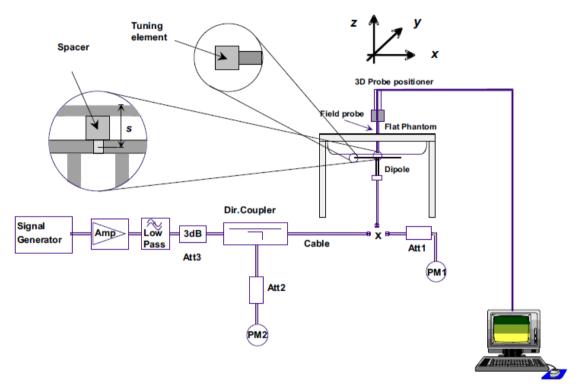


Report No.: KSEM210700125001

Page: 29 of 53

6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-7. the microwave circuit arrangement used for SAR system verification



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Report No.: KSEM210700125001

Page: 30 of 53

6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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Report No.: KSEM210700125001

Page: 31 of 53

6.2.2 Summary System Check Result(s)

Valida	ition Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450 V2	Head	13.1	5.9	52.4	23.6	53 (47.70~58.30)	24.6 (22.14~27.60)	22	2021/8/6
Valida	ition Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHz	Head 5.25GHz	8.03	2.26	80.3	22.6	77.7 (69.93~85.47)	22.4 (20.16~24.64)	22.2	2021/8/9
V2	Head 5.75GHz	7.87	2.24	78.7	22.4	78.9 (71.01~86.79)	22.7 (20.43~24.97)	22.2	2021/8/9

Valida	ition Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450 V2	Head	13.2	5.86	52.8	23.44	53 (47.70~58.30)	24.6 (22.14~27.60)	22.1	2021/9/15
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHz	Head 5.25GHz	8.1	2.32	81	23.2	77.7 (69.93~85.47)	22.4 (20.16~24.64)	21.9	2021/9/17
V2	Head 5.75GHz	8.23	2.36	82.3	23.6	78.9 (71.01~86.79)	22.7 (20.43~24.97)	21.9	2021/9/17

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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Report No.: KSEM210700125001

Page: 32 of 53

7 Test Configuration

7.1 Operation Configurations

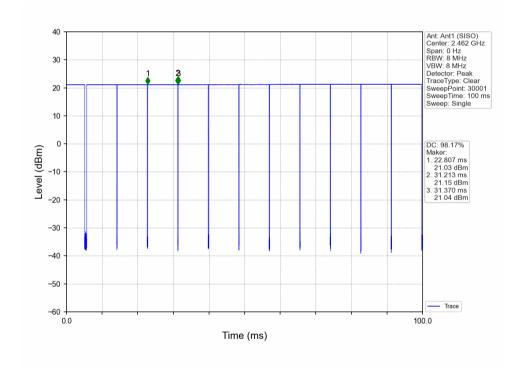
7.1.1 WiFi Test Configuration

For the 802.11b/g/n SAR tests, a communication link is set up with the test mode software for Wi-Fi mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of 2450 MHz during the test at theeach test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate.802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on channel 1, 6, 11; However if output power reduction is necessary for channels 1 and/or 11 to meet restricted band requirements the highest output channel closest to each of these channels must be tested instead.

SAR is not required for 802.11g/n channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels.

7.1.1.1 Duty cycle

2.4GHz WIFI duty cycle: 98.17%





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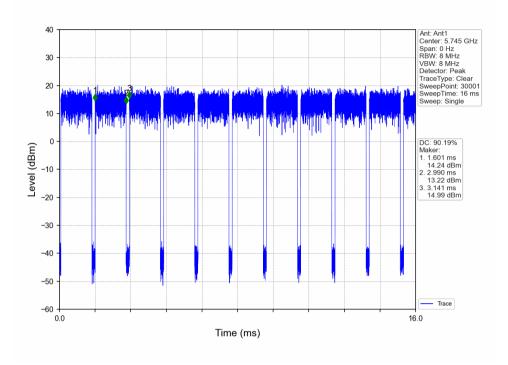
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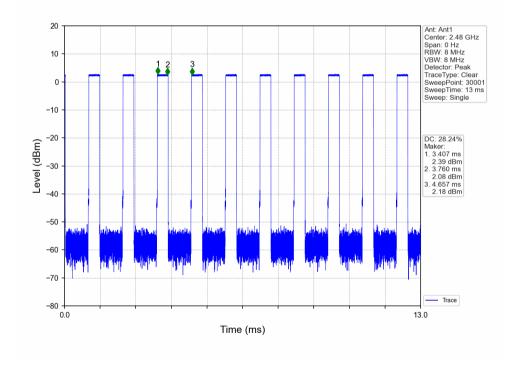
Report No.: KSEM210700125001

Page: 33 of 53

WIFI 5GHz duty cycle: 90.19%



Bluetooth duty cycle: 28.24%





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Report No.: KSEM210700125001

Page: 34 of 53

8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of WIFI

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
	1	2412		13.86	14.5
802.11b	6	2437	1	13.60	14.5
	11	2462		13.79	14.5
	1	2412		13.37	14
802.11g	6	2437	6	13.09	14
	11	2462		13.24	14
000.44	1	2412		13.59	14
802.11n HT20 SISO	6	2437	MCS0	13.27	14
11120 0100	11	2462		13.54	14
000.44	3	2422		12.57	13
802.11n HT40 SISO	6	2437	MCS0	12.29	13
11140 0100	9	2452		12.67	13

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	36 5180			10.95	11.5	
	U-NII-1	44	5200		10.51	11.5
802.11a		48	5240	6	10.32	11.5
602.11a		149	5745	О	12.52	13
	U-NII-3	157	5785		12.42	13
		165	5825		12.13	13
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		10.91	11.5
	U-NII-1	44	5200		10.65	11.5
802.11n-		48	5240	MCS0	10.57	11.5
HT20		149	5745	IVICSU	12.83	13
	U-NII-3	157	5785		12.66	13
		165	5825		12.40	13
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
000.44	11 1111 4	38	5190		9.59	10
802.11n- HT40	U-NII-1	46	5230	MCS0	9.72	10
11140	U-NII-3	151	5755		11.80	12



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Report No.: KSEM210700125001

Page: 35 of 53

		159	5795		11.67	12
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		10.85	11.5
	U-NII-1	44	5220		10.76	11.5
802.11ac		48	5240	MOCO	10.57	11.5
20M		149	5745	MCS0	12.88	13
	U-NII-3	157	5785		12.72	13
		165	5825		12.46	13
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	LLNULA	38	5190		9.63	10
802.11ac	U-NII-1	46	5230	MOCO	9.34	10
40M	LLNULO	151	5755	MCS0	11.33	12
	U-NII-3	159	5795		11.74	12
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac	U-NII-1	42	5210	MCCO	8.37	9
80M	U-NII-3	155	5775	MCS0	10.96	11.5

Table 6: Conducted Power Of WIFI

	BLE	Average Conducted			
Modulation	Channel	Frequency (MHz)	Power (dBm)	Tune up (dBm)	
GFSK 1Mbps	0	2402	1.98	3	
	19	2440	2.24	3	
	39	2480	2.42	3	
GFSK 2Mbps	0	2402	2.09	3	
	19	2440	2.64	3	
	39	2480	2.83	3	

Table 7: Conducted Power Of BT



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Report No.: KSEM210700125001

Page: 36 of 53

Measurement of SAR Data

8.1.2 SAR Result Of WIFI 2.4GHz

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Cond ucted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Limit (W/kg)	Liquid Temp.
Limbs Test data (Separate 0mm)													
Back side	802.11b	1/2412	98.17%	1.019	0.855	0.331	0.01	13.86	14.50	1.159	0.390	4.0	22
Front side	802.11b	1/2412	98.17%	1.019	0.053	0.018	-0.05	13.86	14.50	1.159	0.022	4.0	22
Left side	802.11b	1/2412	98.17%	1.019	0.165	0.075	0.03	13.86	14.50	1.159	0.089	4.0	22
Right side	802.11b	1/2412	98.17%	1.019	0.149	0.073	0.11	13.86	14.50	1.159	0.087	4.0	22
Top Side	802.11b	1/2412	98.17%	1.019	1.622	0.507	0.04	13.86	14.50	1.159	0.599	4.0	22
Bottom side	802.11b	1/2412	98.17%	1.019	0.101	0.047	-0.15	13.86	14.50	1.159	0.056	4.0	22
Top Side	802.11b	6/2437	98.18%	1.019	1.642	0.508	0.02	13.60	14.50	1.230	0.637	4.0	22
Top Side	802.11b	11/2462	98.25%	1.018	1.639	0.511	0.01	13.79	14.50	1.178	0.613	4.0	22
Body Test data (Separate 0mm)													
Back side	802.11b	1/2412	98.17%	1.019	0.300	0.154	0.11	13.86	14.50	1.159	0.354	1.6	22
Back side	802.11b	6/2437	98.17%	1.019	0.295	0.138	0.06	13.60	14.50	1.230	0.369	1.6	22
Back side	802.11b	11/2462	98.17%	1.019	0.285	0.117	0.08	13.79	14.50	1.178	0.343	1.6	22
Head Test data (Separate 0mm)													
Back side	802.11b	1/2412	98.17%	1.019	0.202	0.106	0.07	13.86	14.50	1.159	0.239	1.6	22
Back side	802.11b	6/2437	98.17%	1.019	0.202	0.109	0.07	13.60	14.50	1.230	0.254	1.6	22
Back side	802.11b	11/2462	98.17%	1.019	0.206	0.092	0.07	13.79	14.50	1.178	0.248	1.6	22

Table 8: SAR Result Of WIFI 2.4GHz

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg(≤ 2 W/kg for Limbs SAR) then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) Per KDB248227 D01, for Body SAR test of Wi-Fi2.4G, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11b/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11b/n is not required.</p>



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Page: 37 of 53

8.1.3 SAR Result Of WIFI 5GHz(U-NII-1)

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Cond ucted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Limit (W/kg)	Liquid Temp.
	Limbs Test data (Separate 0mm)												
Back side	802.11a	36/5180	90.19	1.109	0.921	0.228	0.13	10.95	11.5	1.135	0.287	4.0	22.2
Front side	802.11a	36/5180	90.19	1.109	0.023	0.013	-0.05	10.95	11.5	1.135	0.016	4.0	22.2
Left side	802.11a	36/5180	90.19	1.109	0.177	0.096	0.13	10.95	11.5	1.135	0.120	4.0	22.2
Right side	802.11a	36/5180	90.19	1.109	0.178	0.066	0.01	10.95	11.5	1.135	0.083	4.0	22.2
Top side	802.11a	36/5180	90.19	1.109	1.860	0.450	-0.18	10.95	11.5	1.135	0.566	4.0	22.2
Bottom side	802.11a	36/5180	90.19	1.109	0.051	0.018	-0.04	10.95	11.5	1.135	0.023	4.0	22.2
Top side	802.11a	40/5200	90.19	1.109	1.550	0.402	0.02	10.51	11.5	1.256	0.560	4.0	22.2
Top side	802.11a	48/5240	90.19	1.109	1.510	0.388	0.08	10.32	11.5	1.312	0.565	4.0	22.2
				Body Te	est data l	J-NII-1(S	Separate	0mm)					
Back side	802.11a	36/5180	90.19	1.109	0.176	0.070	0.08	10.95	11.5	1.135	0.222	1.6	22.2
Back side	802.11a	40/5200	90.19	1.109	0.183	0.050	-0.05	10.51	11.5	1.256	0.255	1.6	22.2
Back side	802.11a	48/5240	90.19	1.109	0.178	0.049	-0.1	10.32	11.5	1.312	0.259	1.6	22.2
Head Test data U-NII-1(Separate 0mm)													
Back side	802.11a	36/5180	90.19	1.109	0.120	0.026	-0.1	10.95	11.5	1.135	0.151	1.6	22.2
Back side	802.11a	40/5200	90.19	1.109	0.122	0.017	-0.1	10.51	11.5	1.256	0.170	1.6	22.2
Back side	802.11a	48/5240	90.19	1.109	0.116	0.024	-0.1	10.32	11.5	1.312	0.169	1.6	22.2

Table 9: SAR Result Of WIFI 5GHz

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg(≤ 2 W/kg for Limbs SAR) then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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Page: 38 of 53

8.1.4 SAR Result Of WIFI 5GHz(U-NII-3)

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Cond ucted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Limit (W/kg)	Liquid Temp.
	Limbs Test data (Separate 0mm)												
Back side	802.11a	149/5745	90.19	1.109	0.534	0.140	0.07	12.52	13	1.117	0.173	4.0	22.2
Front side	802.11a	149/5745	90.19	1.109	0.033	0.016	0.06	12.52	13	1.117	0.020	4.0	22.2
Left side	802.11a	149/5745	90.19	1.109	0.111	0.068	0.02	12.52	13	1.117	0.084	4.0	22.2
Right side	802.11a	149/5745	90.19	1.109	0.122	0.069	-0.15	12.52	13	1.117	0.086	4.0	22.2
Top side	802.11a	149/5745	90.19	1.109	1.021	0.237	0.11	12.52	13	1.117	0.293	4.0	22.2
Bottom side	802.11a	149/5745	90.19	1.109	0.049	0.039	0.09	12.52	13	1.117	0.048	4.0	22.2
Top side	802.11a	157/5785	90.19	1.109	0.956	0.216	-0.03	12.42	13	1.143	0.274	4.0	22.2
Top side	802.11a	165/5825	90.19	1.109	0.939	0.212	-0.05	12.13	13	1.222	0.287	4.0	22.2
				Body Te	st data l	J-NII-3(S	Separate	0mm)					
Back side	802.11a	149/5745	90.19	1.109	0.131	0.038	0.04	12.37	13	1.156	0.168	1.6	22.2
Back side	802.11a	157/5785	90.19	1.109	0.126	0.037	0.11	12.24	13	1.191	0.167	1.6	22.2
Back side	802.11a	165/5825	90.19	1.109	0.132	0.045	0.1	12.16	13	1.213	0.178	1.6	22.2
Head Test data U-NII-3(Separate 0mm)													
Back side	802.11a	149/5745	90.19	1.109	0.082	0.018	0.04	12.37	13	1.156	0.105	1.6	22.2
Back side	802.11a	157/5785	90.19	1.109	0.078	0.026	0.11	12.24	13	1.191	0.103	1.6	22.2
Back side	802.11a	165/5825	90.19	1.109	0.091	0.023	0.1	12.16	13	1.213	0.123	1.6	22.2

Table 10: SAR Result Of WIFI 5GHz

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg(≤ 2 W/kg for Limbs SAR) then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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Report No.: KSEM210700125001

Page: 39 of 53

8.1.5 SAR Result Of BT

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Cond ucted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Limit (W/kg)	Liquid Temp.
	Limbs Test data (Separate 0mm)												
Back side	GFSK 1Mbps	39/2480	28.24%	3.541	0.097	0.036	-0.11	2.42	3.00	1.143	0.146	4.0	22.0
Front side	GFSK 1Mbps	39/2480	28.24%	3.541	0.003	0.001	0.08	2.42	3.00	1.143	0.004	4.0	22.0
Left side	GFSK 1Mbps	39/2480	28.24%	3.541	0.016	0.006	0.04	2.42	3.00	1.143	0.024	4.0	22.0
Right side	GFSK 1Mbps	39/2480	28.24%	3.541	0.012	0.005	-0.06	2.42	3.00	1.143	0.020	4.0	22.0
Top Side	GFSK 1Mbps	39/2480	28.24%	3.541	0.130	0.051	0.02	2.42	3.00	1.143	0.206	4.0	22.0
Bottom side	GFSK 1Mbps	39/2480	28.24%	3.541	0.003	0.001	0.14	2.42	3.00	1.143	0.004	4.0	22.0
Top Side	GFSK 1Mbps	00/2402	28.24%	3.541	0.115	0.039	0.04	1.98	3.00	1.265	0.175	4.0	22.0
Top Side	GFSK 1Mbps	19/2440	28.24%	3.541	0.121	0.044	-0.08	2.24	3.00	1.191	0.186	4.0	22.0
	Body Test data (Separate 0mm)												
Back side	GFSK 1Mbps	39/2480	28.24%	3.541	0.063	0.029	0.03	2.42	3.00	1.143	0.255	1.6	22.0
Back side	GFSK 1Mbps	00/2402	28.24%	3.541	0.061	0.012	0.07	1.98	3.00	1.265	0.273	1.6	22.0
Back side	GFSK 1Mbps	19/2440	28.24%	3.541	0.068	0.015	0.11	2.24	3.00	1.191	0.287	1.6	22.0
Head Test data (Separate 0mm)													
Back side	GFSK 1Mbps	39/2480	28.24%	3.541	0.034	0.008	0.03	2.42	3.00	1.143	0.138	1.6	22.0
Back side	GFSK 1Mbps	00/2402	28.24%	3.541	0.036	0.010	0.07	1.98	3.00	1.265	0.162	1.6	22.0
Back side	GFSK 1Mbps	19/2440	28.24%	3.541	0.038	0.011	0.11	2.24	3.00	1.191	0.160	1.6	22.0

Table 11: SAR Result Of BT

Note:

- 1) The maximum reported SAR value is marked in **bold**. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg (\leq 2 W/kg for Limbs SAR) then testing at the other channels is not required for such test configuration(s).



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Report No.: KSEM210700125001

Page: 40 of 53

9 Equipment list

Test Platform	SPEAG DASY5 Professional
Location	Compliance Certification Services (Kun shan) Inc.
Description	SAR Test System
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Hardware Reference

	That a war of North Color Color										
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration					
\boxtimes	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A					
\boxtimes	Signal Generator	Agilent	E5182A	MY50142015	2020/09/25	2021/09/24					
\boxtimes	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2021/02/01	2022/01/31					
\boxtimes	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A					
\boxtimes	Power meter	Anritsu	ML2495A	1445010	2021/04/05	2022/04/04					
\boxtimes	Power sensor	Anritsu	MA2411B	1339220	2021/04/05	2022/04/04					
\boxtimes	DAE	SPEAG	DAE4	913	2021/04/21	2022/04/20					
\boxtimes	E-field PROBE	SPEAG	EX3DV4	3798	2021/05/31	2022/05/30					
\boxtimes	Dipole	SPEAG	D2450V2	817	2019/06/10	2022/06/09					
\boxtimes	Dipole	SPEAG	D5GHzV2	1095	2019/06/14	2022/06/13					
\boxtimes	Electro Thermometer	DTM	DTM3000	3030	2020/10/24	2021/10/23					
\boxtimes	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A					
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A					
\boxtimes	3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A					
\boxtimes	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A					
\boxtimes	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A					
\boxtimes	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A					
\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A					
\boxtimes	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A					
\boxtimes	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A					
\boxtimes	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A					

Note: All the equipments are within the valid period when the tests are performed.

All measurement facilities used to collect the measurement data are located at

No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, China.



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Report No.: KSEM210700125001

Page: 41 of 53

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D



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Report No.: KSEM210700125001

Page: 42 of 53

Appendix A: Detailed System Check Results

The plots are showing as followings.



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Report No.: KSEM210700125001

Page: 43 of 53

Date: 2021/08/06

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.806 \text{ S/m}$; $\epsilon_r = 38.232$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2021/05/19
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

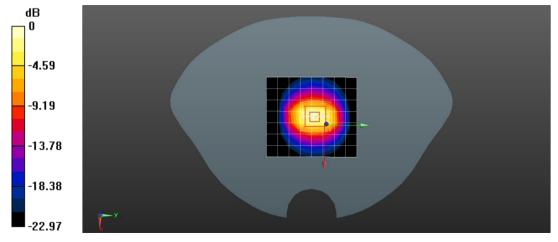
Maximum value of SAR (measured) = 15.2 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.8 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.9 W/kg Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg



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Report No.: KSEM210700125001

Page: 44 of 53

Date: 2021/08/09

Test Laboratory: Compliance Certification Services Inc.

SystemPerformanceCheck-Head 5250MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5250 MHz; $\sigma = 4.844$ S/m; $\epsilon_r = 36.853$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(4.85, 4.85, 4.85); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

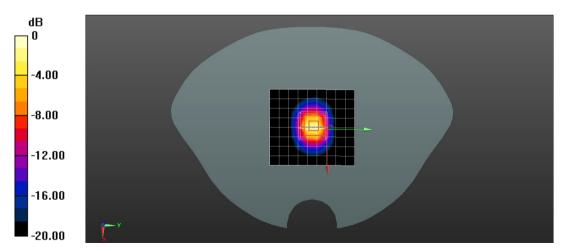
Maximum value of SAR (measured) = 16.2 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.51 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.26 W/kg Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg



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Report No.: KSEM210700125001

Page: 45 of 53

Date: 2021/08/09

Test Laboratory: Compliance Certification Services Inc.

SystemPerformanceCheck-Head 5750MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; $\sigma = 5.424$ S/m; $\varepsilon_r = 35.523$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(4.6, 4.6, 4.6); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

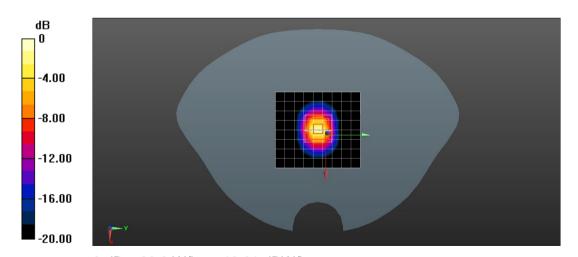
Maximum value of SAR (measured) = 16.5 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.42 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.24 W/kg Maximum value of SAR (measured) = 20.0 W/kg



0 dB = 20.0 W/kg = 13.01 dBW/kg



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Report No.: KSEM210700125001

Page: 46 of 53

Date: 2021/09/15

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.825 \text{ S/m}$; $\varepsilon_r = 39.903$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

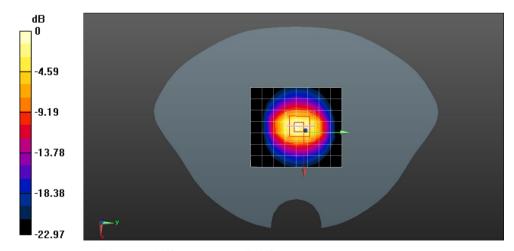
System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 15.4 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.8 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.86 W/kg Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg



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Report No.: KSEM210700125001

Page: 47 of 53

Date: 2021/09/17

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5250MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5250 MHz; $\sigma = 4.767$ S/m; $\varepsilon_r = 36.011$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(4.85, 4.85, 4.85); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

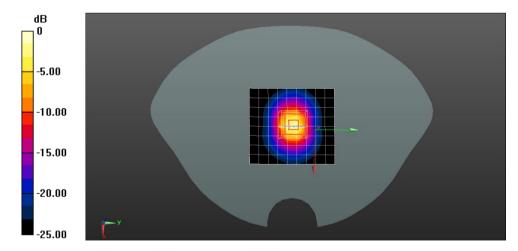
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 15.9 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 71.51 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.32 W/kg Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg = 12.81 dBW/kg



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Report No.: KSEM210700125001

Page: 48 of 53

Date: 2021/09/17

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5750MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; $\sigma = 5.329$ S/m; $\varepsilon_r = 34.695$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(4.6, 4.6, 4.6); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

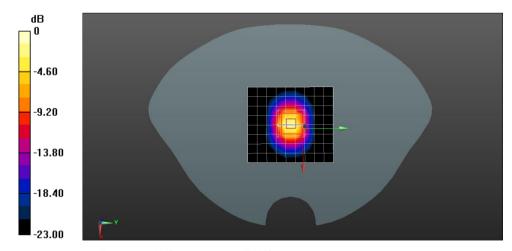
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 16.2 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 70.42 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.36 W/kg Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg



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Report No.: KSEM210700125001

Page: 49 of 53

Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Report No.: KSEM210700125001

Page: 50 of 53

Date: 2021/09/17

Test Laboratory: Compliance Certification Services Inc.

WLAN 2.4GHz 802.11b Top side 0mm Ch6

DUT: DJI Action 2; Type: MC211

Communication System: UID 0, WiFi (0); Frequency: 2462 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2462 MHz; $\sigma = 1.841$ S/m; $\epsilon_r = 39.881$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245: Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

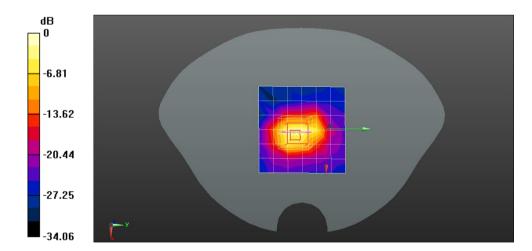
Configuration/Body/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.39 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.21 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 1.642 W/kg; SAR(10 g) = 0.508 W/kg Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.33 W/kg = 3.67 dBW/kg



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Report No.: KSEM210700125001

Page: 51 of 53

Date: 2021/08/09

Test Laboratory: Compliance Certification Services Inc.

WLAN 5GHz 802.11a Top side 0mm Ch36

DUT: DJI Action 2; Type: MC211

Communication System: UID 0, WiFi (0); Frequency: 5180 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5180 MHz; $\sigma = 4.757$ S/m; $\epsilon_r = 37.047$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(4.85, 4.85, 4.85); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

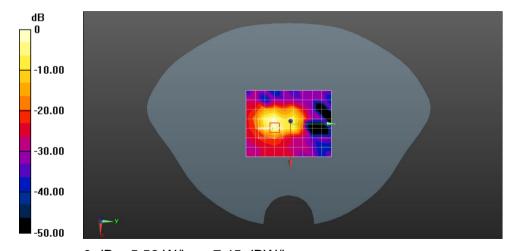
Configuration/Body/Area Scan (8x10x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 3.47 W/kg

Configuration/Body/Zoom Scan (5x6x12)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=2mm

Reference Value = 19.87 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 1.86 W/kg; SAR(10 g) = 0.45 W/kg Maximum value of SAR (measured) = 5.56 W/kg



0 dB = 5.56 W/kg = 7.45 dBW/kg



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Report No.: KSEM210700125001

Page: 52 of 53

Date: 2021/08/06

Test Laboratory: Compliance Certification Services Inc.

Bluetooth BLE 1M Top side 0mm Ch39

DUT: DJI Action 2; Type: MC211

Communication System: UID 0, BLE (0); Frequency: 2480 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2480 MHz; $\sigma = 1.834$ S/m; $\epsilon_r = 38.182$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm

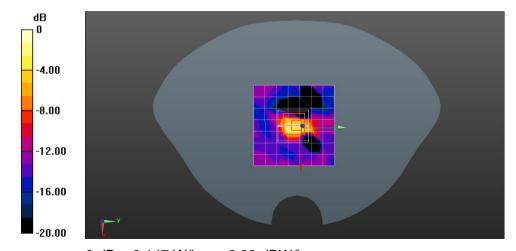
Maximum value of SAR (measured) = 0.263 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.150 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0. 610 W/kg

SAR(1 g) = 0.13 W/kg; SAR(10 g) = 0.051 W/kg Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg



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Report No.: KSEM210700125001

Page: 53 of 53

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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