

SAR TEST REPORT



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

Product Name	FILE TRANSMITTER
Brand Name	FUJIFILM
Model No.	FF210004
Prepared for	FUJIFILM Corporation 7-3, Akasaka 9-Chome, Minato-ku, Tokyo 107-0052 Japan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
Reference documents	KDB248227D01v02r02, KDB865664D01v01r04, KDB865664D02v01r02, KDB447498D01v06
FCC ID	W2Z-02000006
Date of Receipt	Sep. 01, 2021
Date of Test(s)	Oct. 20, 2021 ~ Dec. 23, 2021
Date of Issue	May 04, 2022

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

Remarks:

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

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

Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Kiki Lin	Approved By / John Yeh

Date: May 04, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ES/2021/80014	Rev.00	Initial creation of document	May 04, 2022	Kimmy Chiou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab	
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	
FCC Designation Number	TW0027
No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	
FCC Designation Number	TW0028
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	FUJIFILM Corporation
Company Address	7-3, Akasaka 9-Chome, Minato-ku, Tokyo 107-0052 Japan

1.3 Details of Manufacturer

Company Name	FUJIFILM Corporation
Company Address	7-3, Akasaka 9-Chome, Minato-ku, Tokyo 107-0052 Japan

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1.4 Description of EUT

General Information of Host:

Equipment Under Test	FILE TRANSMITTER		
Brand Name	FUJIFILM		
Model No.	FF210004		
FCC ID	W2Z-02000006		
Mode of Operation	<input checked="" type="checkbox"/> WLAN802.11 a/b/g/n/ac (20M/40M/80M) <input checked="" type="checkbox"/> BLE (FF210002 Camera)		
Duty Cycle	WLAN802.11 a/b/g/n/ac(20M/40M/80M)	Refer to page 13	
	BLE (FF210002 Camera)	62.4%	
TX Frequency Range (MHz)	WLAN802.11 b/g/n(20M)	2412	— 2462
	WLAN802.11 a/n/ac(20M) 5.2G	5180	— 5240
	WLAN802.11 n/ac(40M) 5.2G	5190	— 5230
	WLAN802.11 ac(80M) 5.2G	5210	
	WLAN802.11 a/n/ac(20M) 5.3G	5260	— 5320
	WLAN802.11 n/ac(40M) 5.3G	5270	— 5310
	WLAN802.11 ac(80M) 5.3G	5290	
	WLAN802.11 a/n/ac(20M) 5.8G	5745	— 5825
	WLAN802.11 n/ac(40M) 5.8G	5755	— 5795
	WLAN802.11 ac(80M) 5.8G	5775	
	BLE (FF210002 Camera)	2400	— 2483.5
Channel Number (ARFCN)	WLAN802.11 b/g/n(20M)	1	— 11
	WLAN802.11 a/n/ac(20M) 5.2G	36	— 48
	WLAN802.11 n/ac(40M) 5.2G	38	— 46
	WLAN802.11 ac(80M) 5.2G	42	

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Channel Number (ARFCN)	WLAN802.11 a/n/ac(20M) 5.3G	52	—	64
	WLAN802.11 n/ac(40M) 5.3G	54	—	62
	WLAN802.11 ac(80M) 5.3G	58		
	WLAN802.11 a/n/ac(20M) 5.8G	149	—	165
	WLAN802.11 n/ac(40M) 5.8G	151	—	159
	WLAN802.11 ac(80M) 5.8G	155		
	BLE (FF210002 Camera)	0	—	39

FF210004 Grip

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
WLAN 0	WLAN 802.11b	0.09	0.10	1	Bottom Edge
	WLAN 802.11ac(80M) 5.2G	0.03	0.05	42	Front Surface
	WLAN 802.11ac(80M) 5.3G	0.02	0.03	58	Front Surface
	WLAN 802.11ac(80M) 5.8G	0.02	0.03	155	Front Surface
WLAN 1	WLAN 802.11b	0.03	0.03	11	Bottom Edge
	WLAN 802.11ac(80M) 5.2G	0.15	0.25	42	Front Surface
	WLAN 802.11ac(80M) 5.3G	0.19	0.31	58	Front Surface
	WLAN 802.1ac(80M) 5.8G	0.14	0.19	155	Front Surface

FF210002 Camera

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
WLAN 0	BLE(GFSK)	0.03	0.07	0	Front Surface

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FF210004 Grip WLAN antenna information:

Antenna	Patern antenna	
Frequency	2.4GHz	5GHz
Gain(dBi)	2.2	6.3

FF210002 Camera WLAN & BT antenna information:

Antenna	Chip antenna	
Frequency	2.4GHz	5GHz
Gain(dBi)	1.59	2.23

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WLAN conducted power table:

FF210004 Grip

WLAN 0(port0)

WLAN 0(port0)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45 GHz	802.11b	1	2412	1Mbps	11.42	10.91
		6	2437		11.42	10.59
		11	2462		11.42	10.61
	802.11g	1	2412	6Mbps	11.42	10.59
		6	2437		11.42	10.22
		11	2462		11.42	9.52
	802.11n20-HT0	1	2412	MCS0	11.42	9.97
		6	2437		11.42	9.84
		11	2462		11.42	9.52

WLAN 0(port0)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	5.22	4.77
		40	5200		5.22	4.69
		44	5220		5.22	4.58
		48	5240		5.22	4.78
	802.11n20-HT0	36	5180	MCS0	5.22	4.44
		40	5200		5.22	4.38
		44	5220		5.22	4.27
		48	5240		5.22	4.53
	802.11ac20-VHT0	36	5180	MCS0	5.22	4.41
		40	5200		5.22	4.35
		44	5220		5.22	4.28
		48	5240		5.22	4.45
	802.11n40-HT0	38	5190	MCS0	5.22	4.72
		46	5230		5.22	4.82
	802.11ac40-VHT0	38	5190	MCS0	5.22	4.71
		46	5230		5.22	4.89
	802.11ac80-VHT0	42	5210	MCS0	5.22	3.90

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WLAN 0(port0)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	5.22	4.62
		56	5280		5.22	4.50
		60	5300		5.22	4.27
		64	5320		5.22	4.21
	802.11n20-HT0	52	5260	MCS0	5.22	4.35
		56	5280		5.22	4.27
		60	5300		5.22	4.03
		64	5320		5.22	3.99
	802.11ac20-VHT0	52	5260	MCS0	5.22	4.35
		56	5280		5.22	4.24
		60	5300		5.22	4.05
		64	5320		5.22	3.99
	802.11n40-HT0	54	5270	MCS0	5.22	4.93
		62	5310		5.22	4.59
	802.11ac40-VHT0	54	5270	MCS0	5.22	4.69
		62	5310		5.22	4.59
802.11ac80-VHT0	58	5290	MCS0	5.22	4.00	

WLAN 0(port0)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8 GHz	802.11a	149	5745	6Mbps	4.03	3.92
		157	5785		4.03	3.11
		165	5825		4.03	3.25
	802.11n20-HT0	149	5745	MCS0	4.03	3.67
		157	5785		4.03	3.77
		165	5825		4.03	3.87
	802.11ac20-VHT0	149	5745	MCS0	4.03	3.66
		157	5785		4.03	3.76
		165	5825		4.03	3.87
	802.11n40-HT0	151	5755	MCS0	4.03	3.03
		159	5795		4.03	3.78
	802.11ac40-VHT0	151	5755	MCS0	4.03	3.04
		159	5795		4.03	3.39
	802.11ac80-VHT0	155	5775	MCS0	4.03	3.43

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WLAN 1(port1)

WLAN 1(port1)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45 GHz	802.11b	1	2412	1Mbps	10.04	9.50
		6	2437		10.04	9.41
		11	2462		10.04	9.53
	802.11g	1	2412	6Mbps	10.04	9.77
		6	2437		10.04	9.03
		11	2462		10.04	9.74
	802.11n20-HT0	1	2412	MCS0	10.04	8.75
		6	2437		10.04	9.11
		11	2462		10.04	8.81

WLAN 1(port1)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Set	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.00	8.29	7.26
		40	5200		12.00	8.29	7.38
		44	5220		12.00	8.29	7.32
		48	5240		12.00	8.29	7.42
	802.11n20-HT0	36	5180	MCS0	12.00	8.29	6.95
		40	5200		12.00	8.29	6.89
		44	5220		12.00	8.29	6.94
		48	5240		12.00	8.29	7.11
	802.11ac20-VHT0	36	5180	MCS0	12.00	8.29	7.09
		40	5200		12.00	8.29	7.10
		44	5220		12.00	8.29	6.92
		48	5240		12.00	8.29	6.64
	802.11n40-HT0	38	5190	MCS0	12.00	8.29	7.00
		46	5230		12.00	8.29	7.69
	802.11ac40-VHT0	38	5190	MCS0	12.00	8.29	7.11
		46	5230		12.00	8.29	7.44
802.11ac80-VHT0	42	5210	MCS0	12.00	8.29	6.79	

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WLAN 1(port1)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Set	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.00	8.29	7.15
		56	5280		12.00	8.29	7.45
		60	5300		12.00	8.29	7.42
		64	5320		12.00	8.29	7.35
	802.11n20-HT0	52	5260	MCS0	12.00	8.29	6.95
		56	5280		12.00	8.29	6.97
		60	5300		12.00	8.29	6.87
		64	5320		12.00	8.29	6.86
	802.11ac20-VHT0	52	5260	MCS0	12.00	8.29	6.81
		56	5280		12.00	8.29	6.83
		60	5300		12.00	8.29	6.82
		64	5320		12.00	8.29	6.79
	802.11n40-HT0	54	5270	MCS0	12.00	8.29	7.70
		62	5310		12.00	8.29	7.68
	802.11ac40-VHT0	54	5270	MCS0	12.00	8.29	7.39
		62	5310		12.00	8.29	7.32
802.11ac80-VHT0	58	5290	MCS0	12.00	8.29	7.06	

WLAN 1(port1)						
Mode	set	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8 GHz	802.11a	149	5745	6Mbps	5.00	4.79
		157	5785		5.00	4.96
		165	5825		5.00	4.97
	802.11n20-HT0	149	5745	MCS0	5.00	4.71
		157	5785		5.00	4.81
		165	5825		5.00	4.89
	802.11ac20-VHT0	149	5745	MCS0	5.00	4.33
		157	5785		5.00	4.91
		165	5825		5.00	4.51
	802.11n40-HT0	151	5755	MCS0	5.00	4.87
		159	5795		5.00	4.05
	802.11ac40-VHT0	151	5755	MCS0	5.00	4.81
		159	5795		5.00	3.91
	802.11ac80-VHT0	155	5775	MCS0	5.00	4.52

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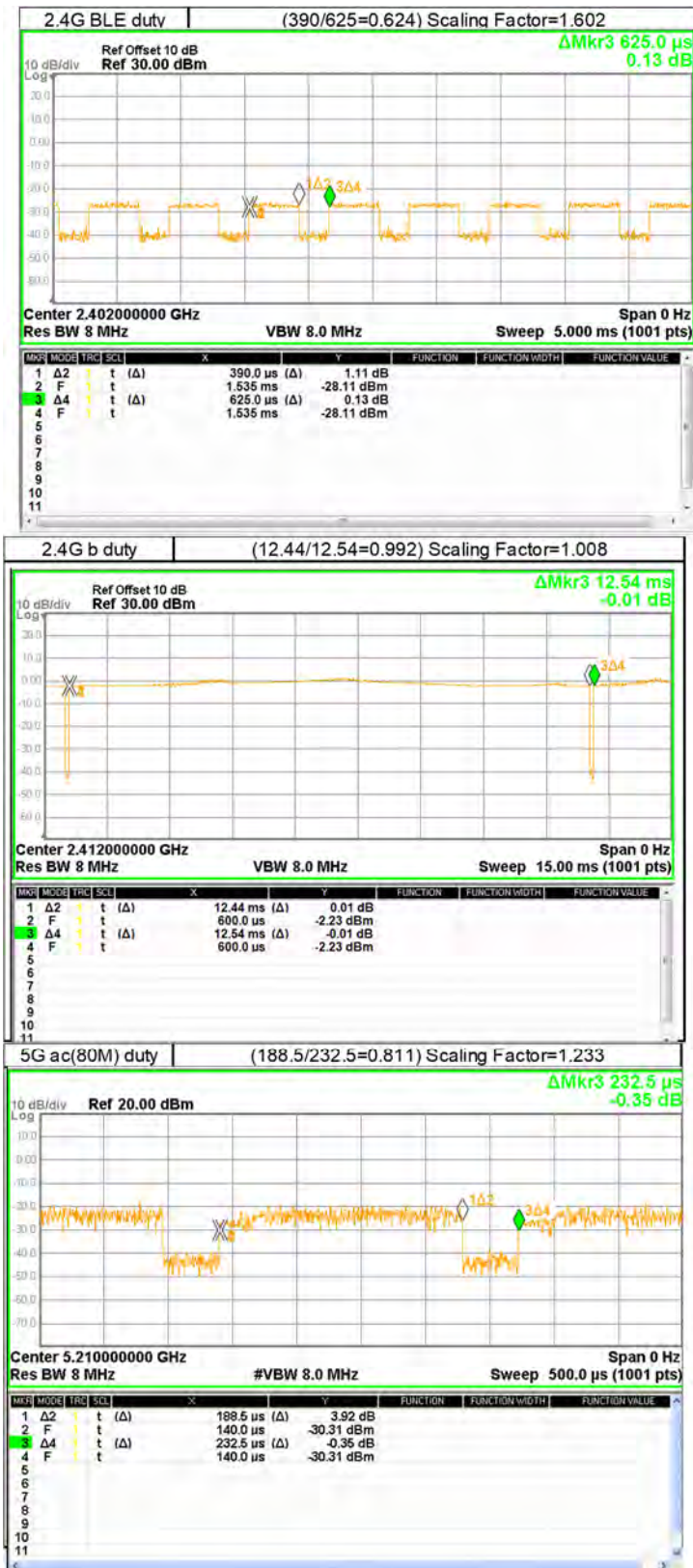
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FF210002 Camera
BLE conducted power table:

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE	CH 00	2402	6	4.67
	CH 19	2440		4.49
	CH 39	2480		4.19

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1.5 Test Environment

Ambient Temperature: 22±2° C

Tissue Simulating Liquid: 22±2° C

1.6 Operation Description

Use chipset specific software to control the EUT, and makes it transmit in maximum power. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

Per FCC guidance, EUT was tested as below,

Utilize the flat phantom and test for 1 gram SAR on all surfaces and side edges with a transmitting antenna at ≤ 25 mm from that surface or edge, but at 0 mm separation to the phantom using head simulant tissue.

Note:

802.11b DSSS SAR Test Requirements:

1. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
2. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

802.11g/n OFDM SAR Test Exclusion Requirements:

3. SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
4. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.

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5. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~10% from the 1-g SAR limit)
6. Power settings are decreased from the original grant conditions, this platform is evaluated to ensure compliance of applicable FCC rules intent.
7. FF210002 Camera is the test peripheral.

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1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_{i}|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
3. 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.

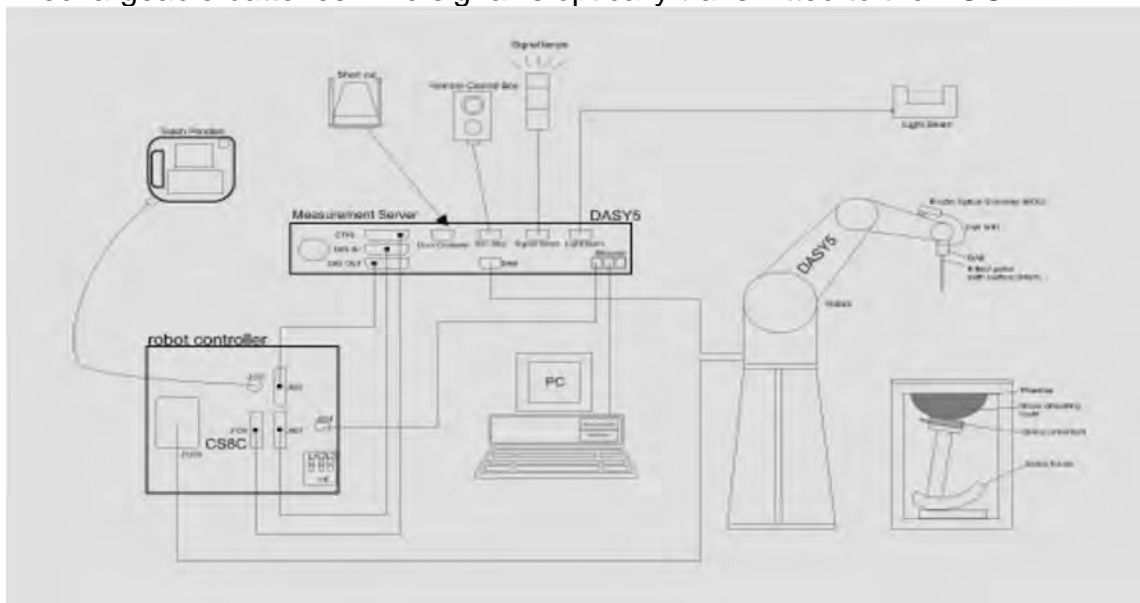


Fig. a The block diagram of SAR system

4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
5. 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.

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6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
7. A computer operating Windows 7.
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. Tissue simulating liquid mixed according to the given recipes.
11. Validation dipole kits allowing to validate the proper functioning of the system.

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1.8 System Components

EX3DV4 E-Field Probe


Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5200/5300/5800 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 <p style="text-align: center;">Device Holder</p>
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1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 2450/5200/5300/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (frequency $\leq 3 \text{ GHz}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (frequency $> 3 \text{ GHz}$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

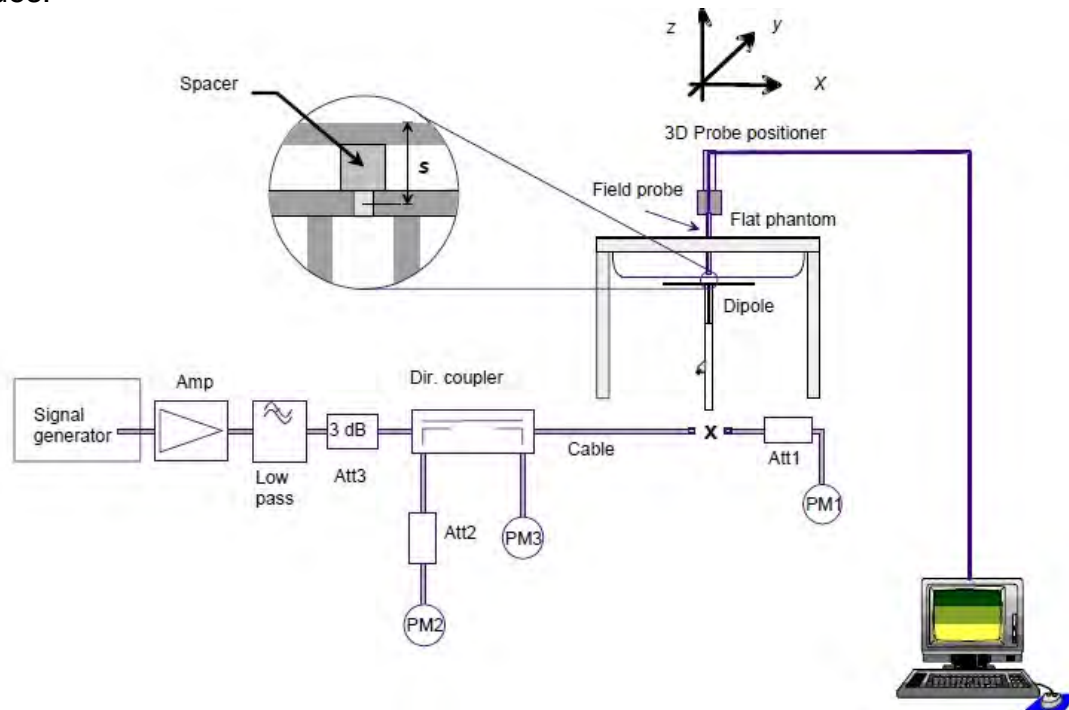


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Head	53.9	13.50	54	0.19%	Oct. 20, 2021

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Head	77.9	8.14	81.4	4.49%	Dec. 23, 2021
		5300	Head	80.4	8.03	80.3	-0.12%	Dec. 23, 2021
		5800	Head	80.9	7.92	79.2	-2.10%	Dec. 23, 2021

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

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

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

The depth of the tissue simulant in the flat section of the phantom was $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (Frequency $\leq 3\text{G}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (Frequency $> 3\text{G}$) during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Ambient temperature	liquid temperature
Head	Oct. 20, 2021	2402	39.285	1.757	39.107	1.745	-0.45%	-0.70%	22.4	22.6
		2412	39.268	1.766	39.087	1.755	-0.46%	-0.64%		
		2417	39.259	1.771	39.078	1.759	-0.46%	-0.66%		
		2437	39.223	1.788	39.029	1.777	-0.49%	-0.64%		
		2450	39.200	1.800	39.020	1.788	-0.46%	-0.67%		
		2457	39.191	1.808	38.999	1.795	-0.49%	-0.70%		
	2462	39.185	1.813	38.981	1.800	-0.52%	-0.72%			
	Dec. 23, 2021	5200	35.986	4.655	35.286	4.565	-1.95%	-1.93%	21.3	21.1
		5210	35.974	4.665	35.274	4.575	-1.95%	-1.93%		
		5290	35.883	4.747	35.183	4.656	-1.95%	-1.92%		
		5300	35.871	4.758	35.171	4.666	-1.95%	-1.92%		
		5775	35.329	5.244	34.629	5.145	-1.98%	-1.89%		
		5800	35.300	5.270	34.600	5.170	-1.98%	-1.89%		

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
2450M	Head	550ml	450ml	—	—	—	—	1.0L(Kg)

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

Ingredients	Water	Esters, Emulsifiers, Inhibitors	Sodium and Salt
(% by weight)	60-80	20-40	0-1.5

Table 3. Recipes for Tissue Simulating Liquid

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1.11 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in these cube measurements.

The measured volume of 30x30x30mm contains about 30g of tissue.

The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D

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interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.12 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

1.12.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field (E) and the temperature gradient ($\delta T / \delta t$) in the liquid.

$$SAR = C \frac{\delta T}{\delta t},$$

whereby σ is the conductivity, ρ the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

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- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ($\sim 2\%$ for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about $\pm 10\%$ (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and $\pm 7-9\%$ (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small

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setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

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3. K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (“SAR”) in Section 4.2 of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in “Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields,” NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- (1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- (2) Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- (3) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not

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exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

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

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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2. Summary of Results

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

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

2.2 Summary of Results

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
										Measured	Reported	
WLAN 0	WLAN 802.11b	Front Surface	0	1	2412	11.42	10.91	1.01	112.46%	0.057	0.065	-
		Bottom Edge	0	1	2412	11.42	10.91	1.01	112.46%	0.090	0.102	35
		Bottom Edge	0	6	2437	11.42	10.59	1.01	121.06%	0.076	0.093	-
		Bottom Edge	0	11	2462	11.42	10.61	1.01	120.50%	0.080	0.097	-
	FF210002 Camera BLE (GFSK)	Front Surface	0	0	2402	6.00	4.67	1.60	135.83%	0.031	0.067	36
		Front Surface	0	19	2440	6.00	4.49	1.60	141.58%	0.024	0.054	-
		Front Surface	0	39	2480	6.00	4.19	1.60	151.71%	0.022	0.053	-
		Bottom Edge	0	0	2402	6.00	4.67	1.60	135.83%	0.026	0.057	-
	WLAN 802.11ac(80M) 5.2G	Front Surface	0	42	5210	5.22	3.90	1.23	135.52%	0.028	0.047	37
		Bottom Edge	0	42	5210	5.22	3.90	1.23	135.52%	0.013	0.022	-
	WLAN 802.11ac(80M) 5.3G	Front Surface	0	58	5290	5.22	4.00	1.23	132.43%	0.021	0.034	38
		Bottom Edge	0	58	5290	5.22	4.00	1.23	132.43%	0.015	0.024	-
	WLAN 802.11ac(80M) 5.8G	Front Surface	0	155	5775	4.03	3.43	1.23	114.82%	0.021	0.030	39
		Bottom Edge	0	155	5775	4.03	3.43	1.23	114.82%	0.016	0.023	-
WLAN 1	WLAN 802.11b	Front Surface	0	11	2462	10.04	9.53	1.01	112.46%	0.025	0.028	-
		Bottom Edge	0	1	2412	10.04	9.50	1.01	113.24%	0.024	0.027	-
		Bottom Edge	0	6	2437	10.04	9.41	1.01	115.61%	0.021	0.024	-
		Bottom Edge	0	11	2462	10.04	9.53	1.01	112.46%	0.028	0.032	40
	WLAN 802.11ac(80M) 5.2G	Front Surface	0	42	5210	8.29	6.79	1.23	141.25%	0.145	0.253	41
		Bottom Edge	0	42	5210	8.29	6.79	1.23	141.25%	0.063	0.110	-
	WLAN 802.11ac(80M) 5.3G	Front Surface	0	58	5290	8.29	7.06	1.23	132.74%	0.188	0.308	42
		Bottom Edge	0	58	5290	8.29	7.06	1.23	132.74%	0.078	0.128	-
	WLAN 802.11ac(80M) 5.8G	Front Surface	0	155	5775	5.00	4.52	1.23	111.69%	0.140	0.193	43
		Bottom Edge	0	155	5775	5.00	4.52	1.23	111.69%	0.106	0.146	-

Note:

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

$$\text{Reported SAR} = \text{measured SAR} * (\text{scaling})$$

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

2.3 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
Grip 2.4GHz WLAN0 + Grip 2.4GHz WLAN1 + Camera BLE	Yes
Grip 5GHz WLAN0 + Grip 5GHz WLAN1 + Camera BLE	Yes
Camera BLE + Grip 2.4GHz WLAN0	Yes
Camera BLE + Grip 5GHz WLAN0	Yes
Note: 1. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with (or less than) that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.	

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3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

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The simultaneous Transmission conditions

Exposure position 1g(W/kg)	1	2	3	4	5	Scenario 1	Scenario 2	Scenario 3	Scenario 4	SPLSR
	2.4GHz WLAN0	2.4GHz WLAN1	5GHz WLAN0	5GHz WLAN1	FF210002 Camera BLE	1+2+5 Sum	3+4+5 Sum	1+5 Sum	3+5 Sum	
Front Surface	0.065	0.028	0.047	0.308	0.067	0.160	0.422	0.132	0.114	ΣSAR<1.6, Not required
Bottom Edge	0.102	0.032	0.024	0.146	0.057	0.191	0.227	0.159	0.081	ΣSAR<1.6, Not required

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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Mar.19,2021	Mar.18,2022
			3938	Feb.22,2021	Feb.21,2022
SPEAG	System Validation Dipole	D2450V2	727	Apr.14,2021	Apr.13,2022
		D5GHzV2	1023	Jan.26,2021	Jan.25,2022
SPEAG	Data acquisition Electronics	DAE4	877	Mar.22,2021	Mar.21,2022
			547	Mar.22,2021	Mar.21,2022
SPEAG	Software	DASY52 4.7.80	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.17,2021	Feb.16,2022
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16.2021	Aug.15.2022
		778D	MY48220468	Aug.16.2021	Aug.15.2022
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Agilent	Power Meter	E4417A	MY51410006	Mar.23,2021	Mar.22,2022
Agilent	Power Sensor	E9301H	MY51470001	Mar.23,2021	Mar.22,2022
			MY51470002	Mar.23,2021	Mar.22,2022
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022

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5. Measurements

Date: 2021/10/20

Report No. : ES/2021/80014

WLAN 802.11b_Body_Bottom Edge_CH 1_WLAN 0_0mm

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.008

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 38.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.16, 8.16, 8.16); Calibrated: 2021/03/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x141x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.171 W/kg

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

Reference Value = 4.333 V/m; Power Drift = 0.03 dB

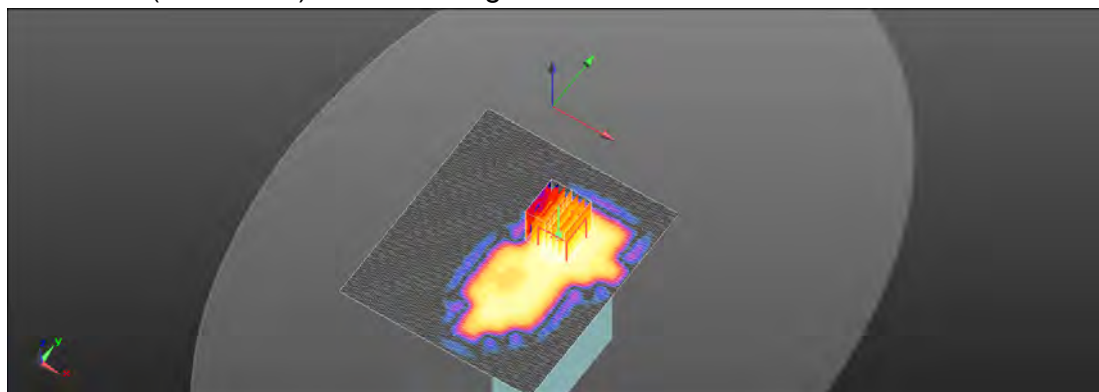
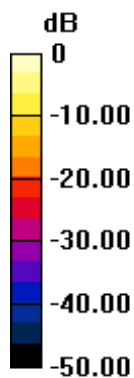
Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.041 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 45.5%

Maximum value of SAR (measured) = 0.133 W/kg



0 dB = 0.133 W/kg = -8.76 dBW/kg

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Date: 2021/10/20

Report No. :ES/2021/80014

Bluetooth Low Energy(GFSK)_Body_Front Surface_FF210002_Camera_0mm

Communication System: Bluetooth Low Energy; Frequency: 2402 MHz; Duty Cycle: 1:1.602

Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 1.745 \text{ S/m}$; $\epsilon_r = 39.107$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.16, 8.16, 8.16); Calibrated: 2021/03/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (161x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.123 W/kg

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

Reference Value = 2.220 V/m; Power Drift = 0.09 dB

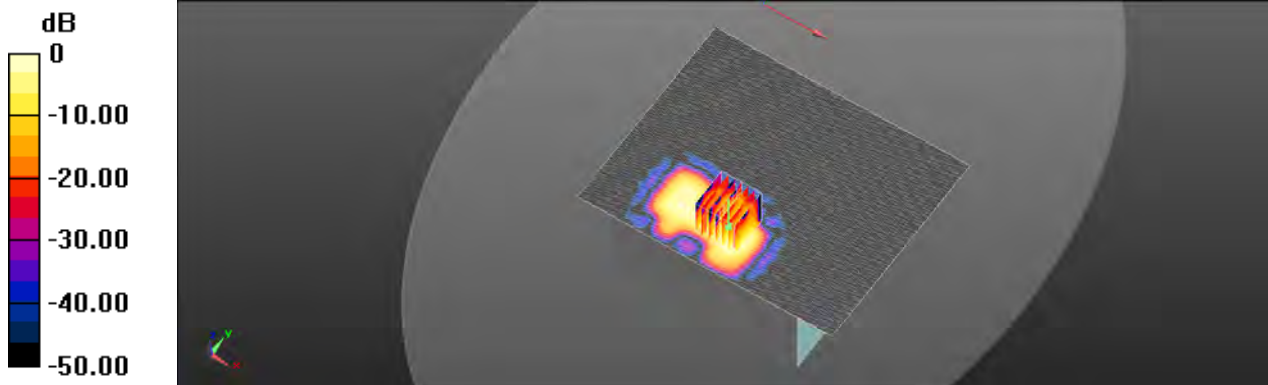
Peak SAR (extrapolated) = 0.143 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.012 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.9%

Maximum value of SAR (measured) = 0.103 W/kg



0 dB = 0.103 W/kg = -9.87 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

WLAN 802.11ac(80M) 5.2G_Body_Front Surface_CH 42_0mm_WLAN 0

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.233

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.575 \text{ S/m}$; $\epsilon_r = 35.274$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0473 W/kg

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

Reference Value = 51.3 V/m; Power Drift = 0.02 dB

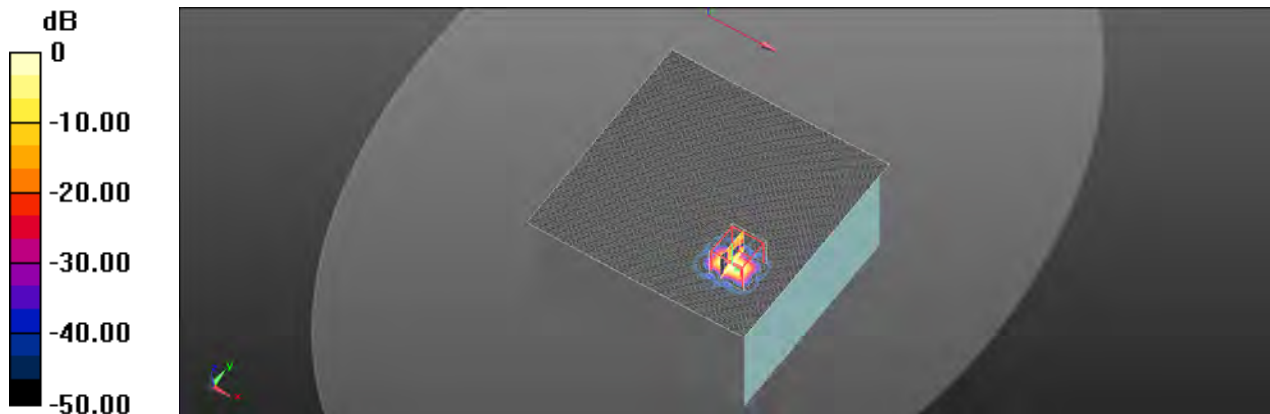
Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.00858 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.0469 W/kg



0 dB = 0.0469 W/kg = -13.29 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

WLAN 802.11ac(80M) 5.3G_Body_Front Surface_CH 58_0mm_WLAN 0

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.233

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.656$ S/m; $\epsilon_r = 35.183$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0370 W/kg

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

Reference Value = 39.5 V/m; Power Drift = 0.01 dB

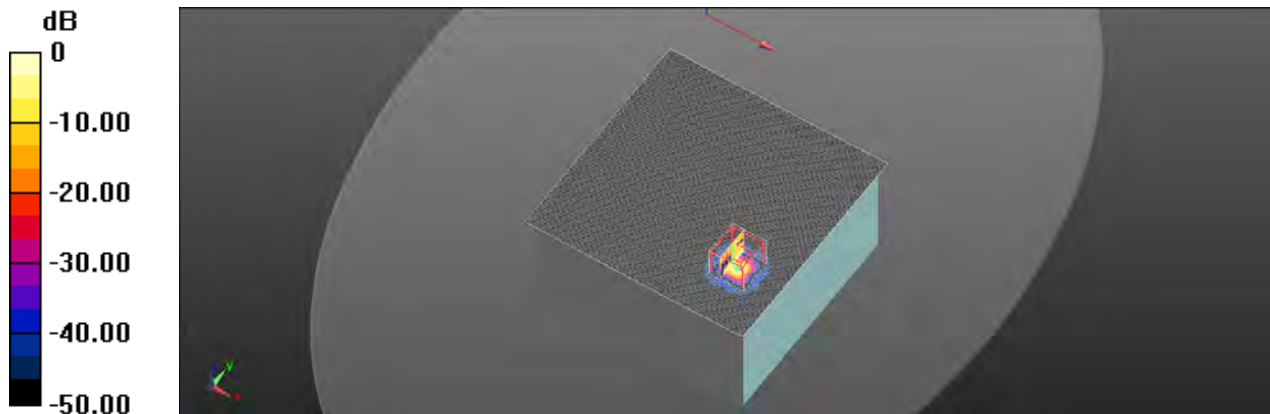
Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00662 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.0413 W/kg



0 dB = 0.0413 W/kg = -13.84 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

WLAN 802.11ac(80M) 5.8G_Body_Front Surface_CH 155_0mm_WLAN 0

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.233

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.145 \text{ S/m}$; $\epsilon_r = 34.629$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0921 W/kg

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

Reference Value = 43.2 V/m; Power Drift = 0.04 dB

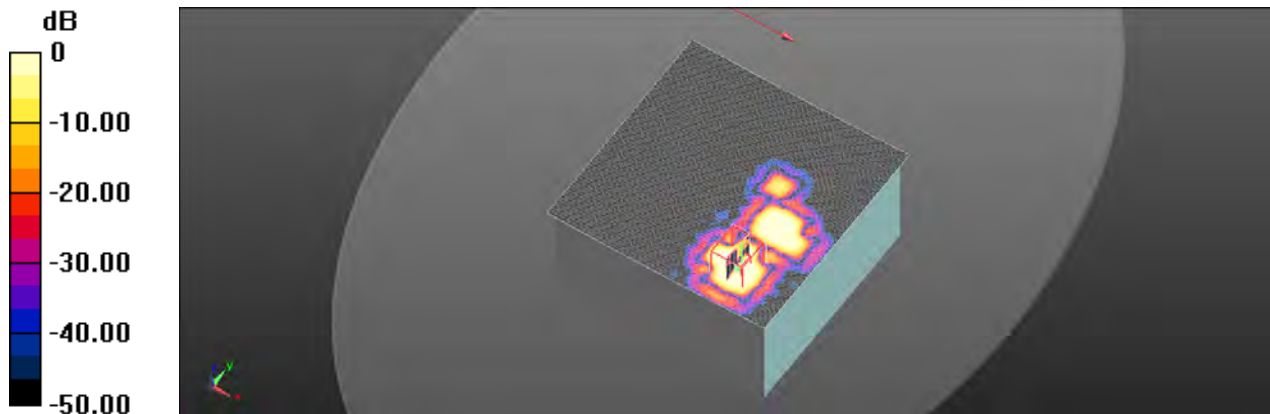
Peak SAR (extrapolated) = 0.273 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00392 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 0.0315 W/kg



0 dB = 0.0315 W/kg = -15.02 dBW/kg

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Date: 2021/10/20

Report No. :ES/2021/80014

WLAN 802.11b_Body_Bottom Edge_CH 11_WLAN 1_0mm

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.008

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.8 \text{ S/m}$; $\epsilon_r = 38.981$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.16, 8.16, 8.16); Calibrated: 2021/03/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (121x141x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0816 W/kg

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

Reference Value = 2.492 V/m; Power Drift = 0.17 dB

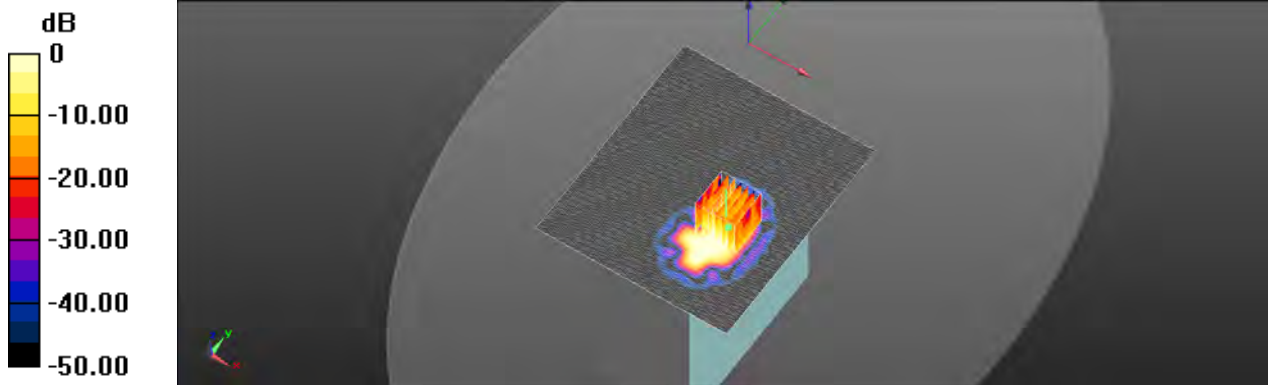
Peak SAR (extrapolated) = 0.0640 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.012 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 0.0454 W/kg



0 dB = 0.0454 W/kg = -13.43 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

WLAN 802.11ac(80M) 5.2G_Body_Front Surface_CH 42_0mm_WLAN 1

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.233

Medium parameters used: $f = 5210$ MHz; $\sigma = 4.575$ S/m; $\epsilon_r = 35.274$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x151x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 41.21 V/m; Power Drift = -0.02 dB

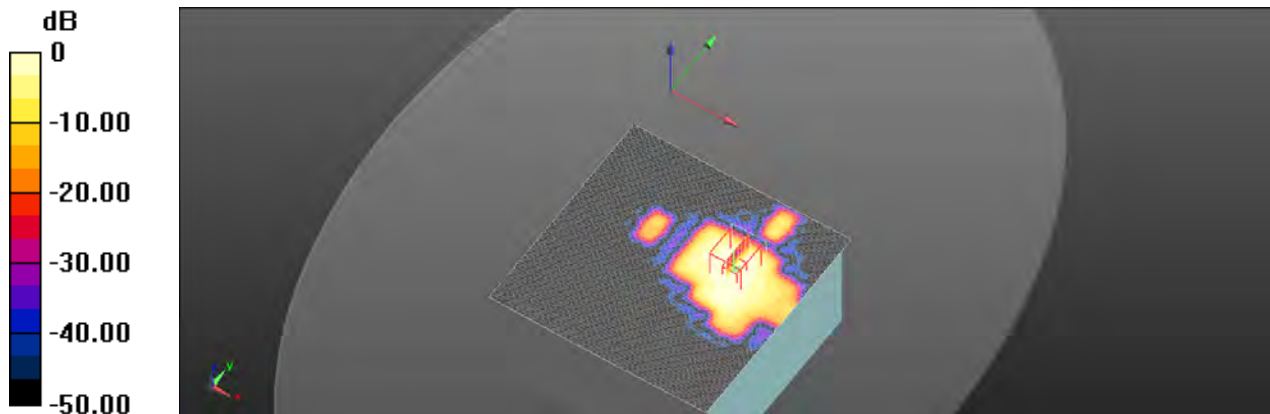
Peak SAR (extrapolated) = 0.569 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.053 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 0.267 W/kg



0 dB = 0.267 W/kg = -5.73 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

WLAN 802.11ac(80M) 5.3G_Body_Front Surface_CH 58_0mm_WLAN 1

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.233

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.656$ S/m; $\epsilon_r = 35.183$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.320 W/kg

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

Reference Value = 38.6 V/m; Power Drift = -0.01 dB

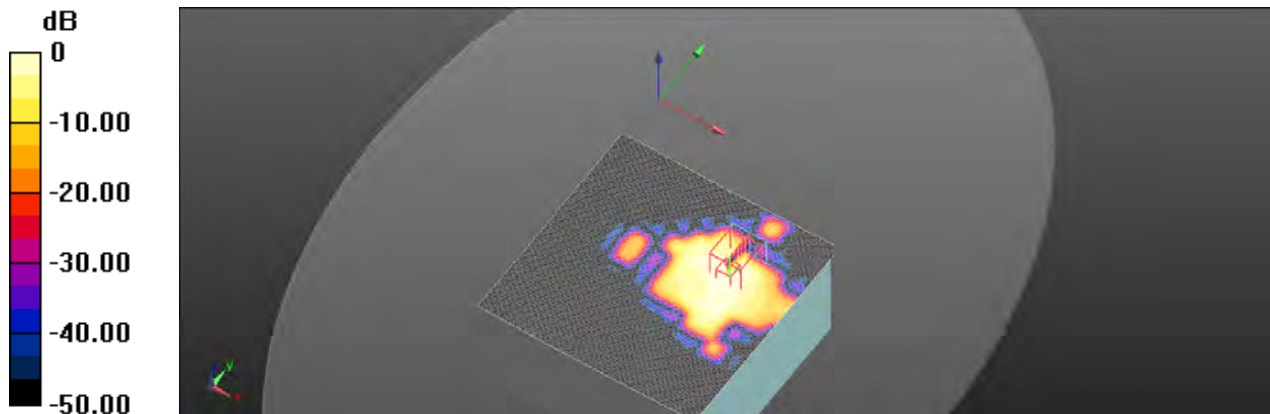
Peak SAR (extrapolated) = 0.655 W/kg

SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.055 W/kg

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

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

Maximum value of SAR (measured) = 0.358 W/kg



0 dB = 0.358 W/kg = -4.46 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

WLAN 802.11ac(80M) 5.8G_Body_Front Surface_CH 155_0mm_WLAN 1

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.233

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.145 \text{ S/m}$; $\epsilon_r = 34.629$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x151x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 41.6 V/m; Power Drift = -0.03 dB

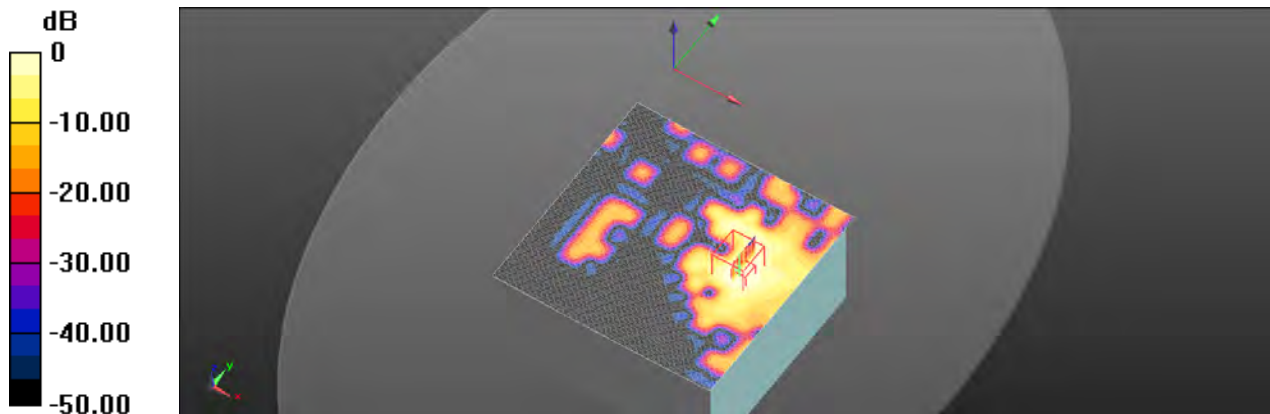
Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.047 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 0.280 W/kg



0 dB = 0.280 W/kg = -5.53 dBW/kg

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6. SAR System Performance Verification

Date: 2021/10/20

Report No. :ES/2021/80014

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.788$ S/m; $\epsilon_r = 39.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7642; ConvF(8.16, 8.16, 8.16); Calibrated: 2021/03/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn877; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 26.5 W/kg

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

Reference Value = 90.41 V/m; Power Drift = -0.01 dB

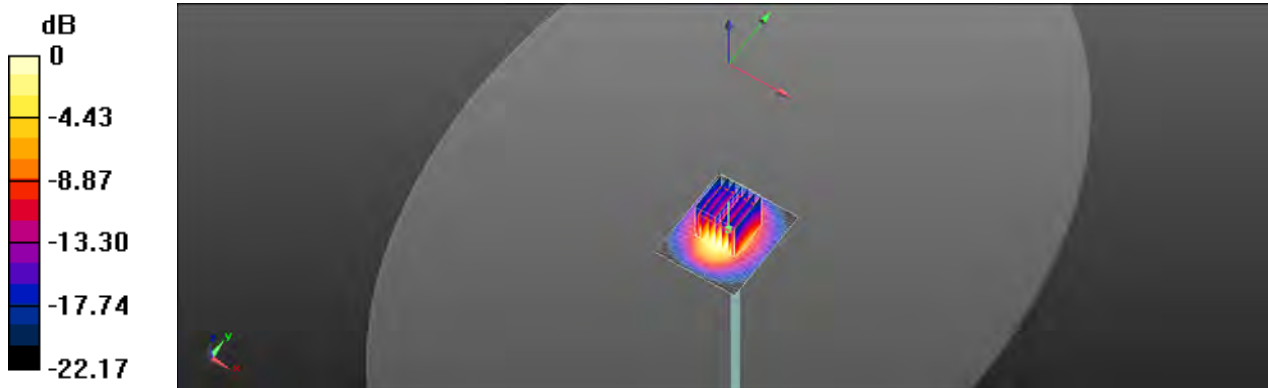
Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.15 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 24.4 W/kg



0 dB = 24.4 W/kg = 13.87 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

Dipole 5200 MHz_SN :1023

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.565$ S/m; $\epsilon_r = 35.286$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 18.4 W/kg

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

Reference Value = 61.47 V/m; Power Drift = 0.03 dB

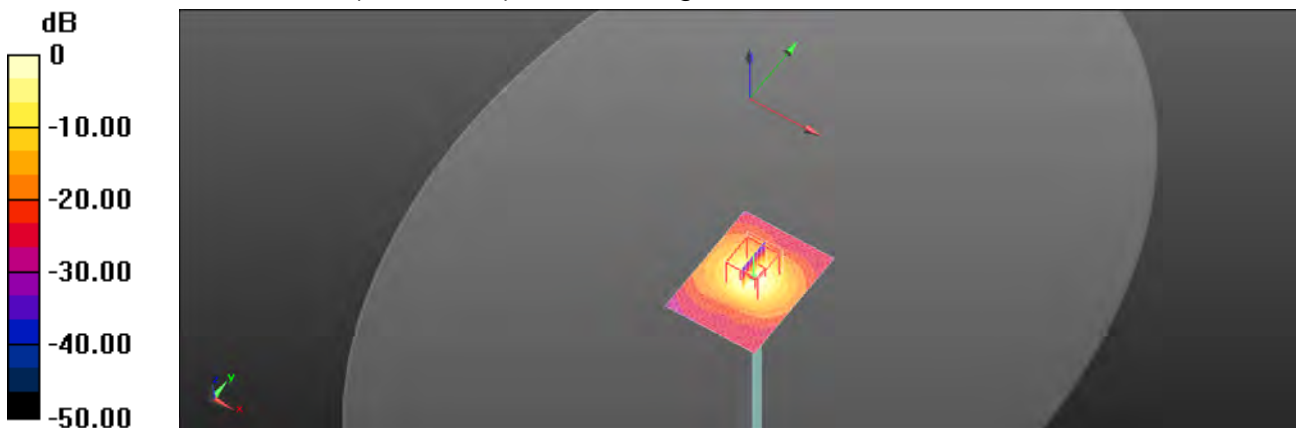
Peak SAR (extrapolated) = 36.7 W/kg

SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.29 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.3%

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



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

Dipole 5300 MHz_SN :1023

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 4.666 \text{ S/m}$; $\epsilon_r = 35.171$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 56.96 V/m; Power Drift = 0.06 dB

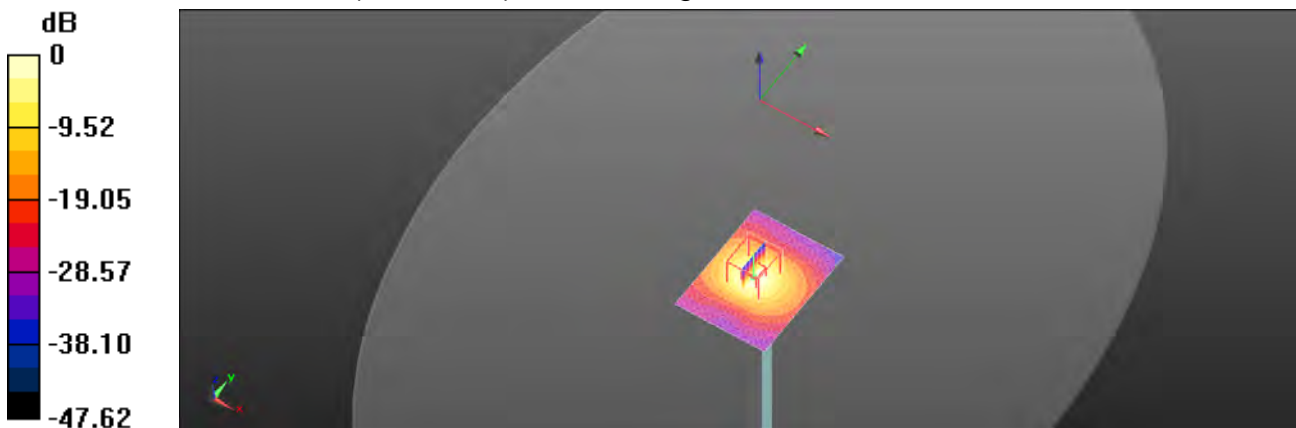
Peak SAR (extrapolated) = 34.3 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.33 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.20 dBW/kg

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Date: 2021/12/23

Report No. : ES/2021/80014

Dipole 5800 MHz_SN :1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.17 \text{ S/m}$; $\epsilon_r = 34.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.3°C; Liquid temperature: 21.1°C

DASY5 Configuration:

- Probe: EX3DV4 – SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2021/2/22
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2021/03/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 16.8 W/kg

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

Reference Value = 60.47 V/m; Power Drift = -0.04 dB

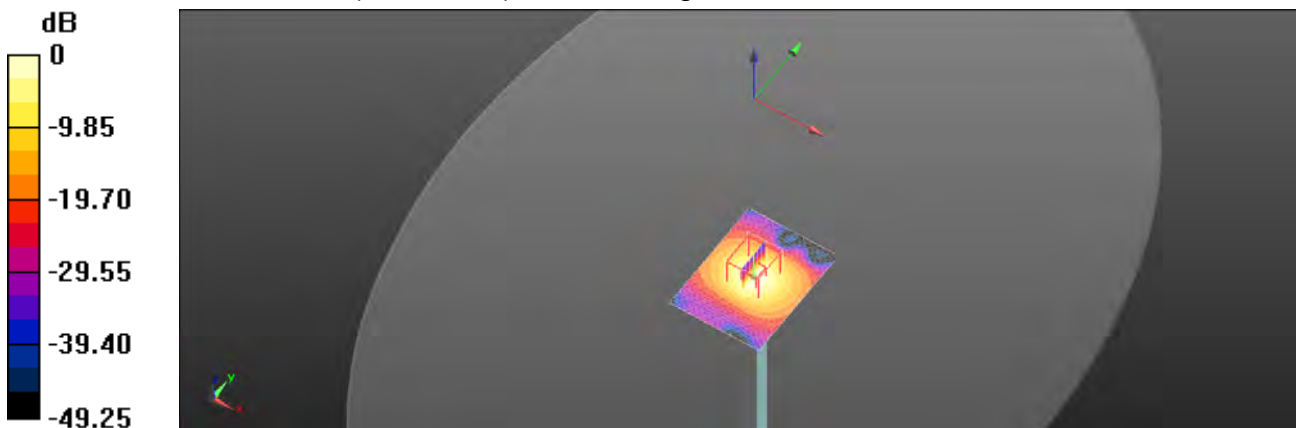
Peak SAR (extrapolated) = 39.4 W/kg

SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.21 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.1 W/kg = 12.34 dBW/kg

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7. Uncertainty Budget

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.98%	N	1	1	0.64	0.43	1.27%	0.85%	M
Liquid Conductivity (mea.)	1.93%	N	1	1	0.6	0.49	1.16%	0.95%	M
Combined standard uncertainty		RSS					11.84%	11.78%	
Expant uncertainty (95% confidence interval), K=2							23.68%	23.55%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.52%	N	1	1	0.64	0.43	0.33%	0.22%	M
Liquid Conductivity (mea.)	0.72%	N	1	1	0.6	0.49	0.43%	0.35%	M
Combined standard uncertainty		RSS					11.43%	11.42%	
Expant uncertainty (95% confidence interval), K=2							22.86%	22.83%	

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Appendixes

Refer to separated files for the following appendixes.

ES202180014 SAR_Appendix A Photographs

ES202180014 SAR_Appendix B DAE & Probe Cal. Certificate

ES202180014 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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