



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



SAR TEST REPORT

Applicant: MAXWEST COMMUNICATION LIMITED

Address: ROOM 1802B FORTRESS TOWER 250 KING'S ROAD, NORTH
POINT HONG KONG

FCC ID: 2ASP8UNOFLIP4G

Product Name: Phone

Model Number: UNO FLIP 4G

Standard(s): 47 CFR Part 2(2.1093)

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21110023-SA

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Reviewed By: Sun Zhong

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SAR TEST RESULTS SUMMARY

Operation Frequency Bands	Highest Reported 1g SAR (W/kg)			Limits (W/kg)
	Head	Body-Worn (Gap 5mm)	Hotspot (Gap 10mm)	
GSM 850	0.20	0.33	/	1.6
PCS 1900	0.49	0.87	/	
WCDMA Band 2	0.66	1.22	/	
WCDMA Band 4	0.31	1.19	/	
WCDMA Band 5	0.70	1.19	/	
LTE Band 2	0.38	0.98	/	
LTE Band 5	0.47	0.77	/	
LTE Band 12&17	0.07	0.11	/	
LTE Band 13	0.19	0.32	/	
LTE Band 66&4	0.36	0.76	/	
Maximum Simultaneous Transmission SAR				
Items	Head	Body-Supported	Hotspot	Limits
Sum SAR(W/kg)	0.93	1.46	/	1.6
SPLSR	N/A	N/A	N/A	0.04
EUT Received Date:	2021/11/18			
Dateed Test:	2022/02/07 ~ 2022/02/09			
Tested Result:	Pass			

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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CONTENTS

SAR TEST RESULTS SUMMARY	2
TEST FACILITY	3
DECLARATIONS.....	3
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 TEST SPECIFICATION, METHODS AND PROCEDURES	7
1.3 SAR LIMITS	8
2. SAR MEASUREMENT SYSTEM	9
3. EQUIPMENT LIST AND CALIBRATION	16
3.1 EQUIPMENTS LIST & CALIBRATION INFORMATION	16
4. SAR MEASUREMENT SYSTEM VERIFICATION	17
4.1 LIQUID VERIFICATION	17
4.2 SYSTEM ACCURACY VERIFICATION	19
4.3 SAR SYSTEM VALIDATION DATA.....	20
5. EUT TEST STRATEGY AND METHODOLOGY	23
5.1 TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR	23
5.2 CHEEK/TOUCH POSITION.....	24
5.3 EAR/TILT POSITION.....	24
5.4 TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS	25
5.5 TEST DISTANCE FOR SAR EVALUATION.....	26
5.6 SAR EVALUATION PROCEDURE	27
6. CONDUCTED OUTPUT POWER MEASUREMENT	28
6.1 TEST PROCEDURE	28
6.2 DESCRIPTION OF TEST CONFIGURATION.....	29
6.3 MAXIMUM TARGET OUTPUT POWER.....	33
6.4 TEST RESULTS:	34
7. Standalone SAR test exclusion considerations	52
7.1 STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	52
7.2 STANDALONE SAR ESTIMATION:	53
8. SAR MEASUREMENT RESULTS	54
8.1 SAR TEST DATA	54

9. SAR Measurement Variability	66
10. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION	67
11. SAR Plots	69
APPENDIX A MEASUREMENT UNCERTAINTY	156
APPENDIX B EUT TEST POSITION PHOTOS	158
APPENDIX C CALIBRATION CERTIFICATES	162

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	Earphones
Operation modes:	GSM,GPRS/EDGE Data, WCDMA(Rel99,HSUPA,HSDPA), FDD-LTE and Bluetooth
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755 MHz(TX); 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX) ; 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX) LTE Band 13: 777-787 MHz(TX); 746-756 MHz(RX) LTE Band 17: 704-716 MHz(TX); 734-746 MHz(RX) LTE Band 66: 1710-1780 MHz(TX); 2110-2180 MHz(RX) Bluetooth: 2402 -2480 MHz
Conducted RF Power:	GSM 850: 33.33 dBm; PCS 1900: 31.57 dBm WCDMA Band 2: 22.03 dBm; WCDMA Band 4: 22.06 dBm WCDMA Band 5: 22.34 dBm LTE Band 2: 20.91 dBm; LTE Band 4: 20.92 dBm LTE Band 5: 21.08 dBm; LTE Band 12: 23.35 dBm LTE Band 13: 21.19 dBm; LTE Band 17: 23.43 dBm LTE Band 66: 20.94 dBm Bluetooth: 7.25 dBm
Rated Input Voltage:	DC 3.7V from Rechargeable Battery
Serial Number:	CR21110023-SA-S1
Normal Operation:	Body Worn and Head

1.2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528-2013, the following FCC Published RF exposure KDB procedures:

KDB 447498 D01 General RF Exposure Guidance v06
KDB 648474 D04 Handset SAR v01r03
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05

TCB Workshop April 2019: RF Exposure Procedures

1.3 SAR Limits

FCC Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

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

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g Body SAR and 4.0W/kg for 10g Extremity SAR applied to the EUT.

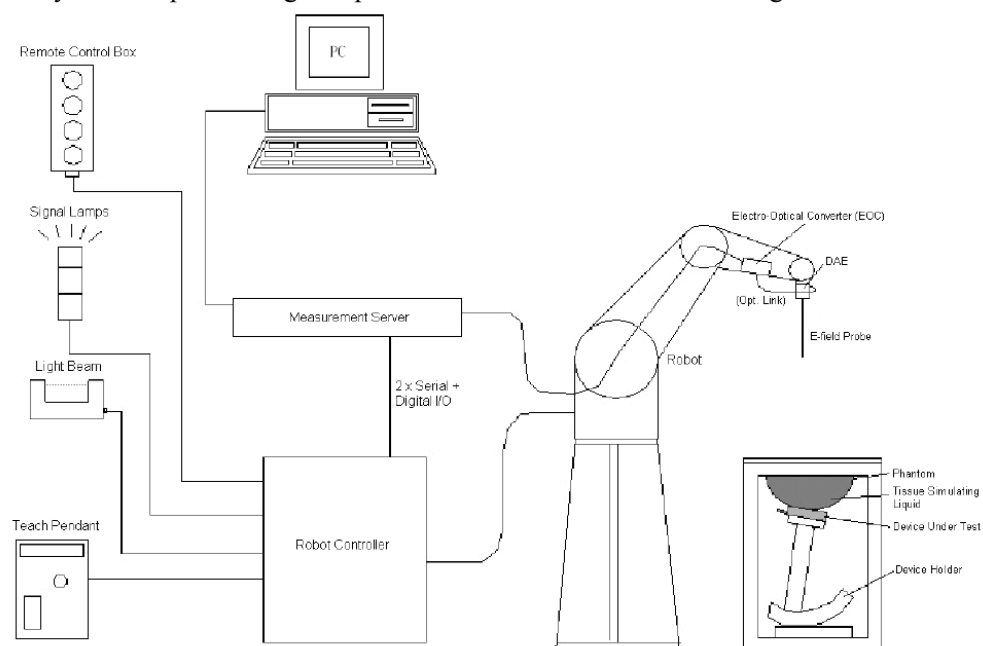
2. SAR MEASUREMENT SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200M Ω ; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

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 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/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

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7522 Calibrated: 2021/4/19

Calibration Frequency Point(MHz)	Frequency Range(MHz)		Conversion Factor		
	From	To	X	Y	Z
750 Head	650	850	9.93	9.93	9.93
750 Body	650	850	9.87	9.87	9.87
900 Head	850	1000	9.39	9.39	9.39
900 Body	850	1000	9.31	9.31	9.31
1750 Head	1650	1850	8.16	8.16	8.16
1750 Body	1650	1850	7.83	7.83	7.83
1900 Head	1850	2000	7.94	7.94	7.94
1900 Body	1850	2000	7.66	7.66	7.66
2300 Head	2200	2400	7.61	7.61	7.61
2300 Body	2200	2400	7.45	7.45	7.45
2450 Head	2400	2550	7.25	7.25	7.25
2450 Body	2400	2550	7.29	7.29	7.29
2600 Head	2550	2700	7.05	7.05	7.05
2600 Body	2550	2700	7.01	7.01	7.01

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6 mm). The phantom has three measurement areas:

- _ Left Head
- _ Right Head
- _ Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 cm (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm $\pm$ 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: 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
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$ mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power Drift Measurement

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

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x 7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 – Dielectric properties of the head tissue-equivalent liquid

Frequency MHz	Relative permittivity ϵ_r	Conductivity (σ) S/m
300	45,3	0,87
450	43,5	0,87
<i>750</i>	<i>41,9</i>	<i>0,89</i>
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
<i>1 500</i>	<i>40,4</i>	<i>1,23</i>
<i>1 640</i>	<i>40,2</i>	<i>1,31</i>
<i>1 750</i>	<i>40,1</i>	<i>1,37</i>
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
<i>2 100</i>	<i>39,8</i>	<i>1,49</i>
<i>2 300</i>	<i>39,5</i>	<i>1,67</i>
2 450	39,2	1,80
<i>2 600</i>	<i>39,0</i>	<i>1,96</i>
3 000	38,5	2,40
<i>3 500</i>	<i>37,9</i>	<i>2,91</i>
<i>4 000</i>	<i>37,4</i>	<i>3,43</i>
<i>4 500</i>	<i>36,8</i>	<i>3,94</i>
<i>5 000</i>	<i>36,2</i>	<i>4,45</i>
<i>5 200</i>	<i>36,0</i>	<i>4,66</i>
<i>5 400</i>	<i>35,8</i>	<i>4,86</i>
<i>5 600</i>	<i>35,5</i>	<i>5,07</i>
<i>5 800</i>	<i>35,3</i>	<i>5,27</i>
<i>6 000</i>	<i>35,1</i>	<i>5,48</i>

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

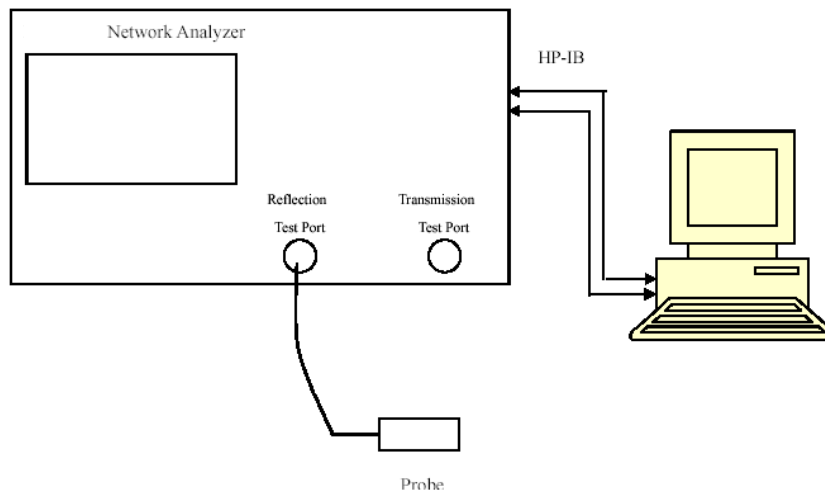
3. EQUIPMENT LIST AND CALIBRATION

3.1 Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1567	NCR	NCR
Data Acquisition Electronics	DAE4	1354	2021/9/1	2022/8/31
E-Field Probe	EX3DV4	7522	2021/4/19	2022/4/18
Mounting Device	MD4HHTV5	BJPCTC0152	NCR	NCR
Twin SAM	Twin SAM V5.0	1412	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2019/11/20	2022/11/19
Dipole, 1750 MHz	D1750V2	1141	2021/6/29	2024/6/28
Dipole, 1900 MHz	D1900V2	543	2019/10/15	2022/10/14
Simulated Tissue 750 MHz	TS-750	2009075001	Each Time	/
Simulated Tissue 1750 MHz	TS-1750	2003175001	Each Time	/
Simulated Tissue 1900 MHz	TS-1900	2003190001	Each Time	/
Network Analyzer	8753B	2828A00170	2021/10/26	2022/10/25
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
synthesized signal generator	E8247C	MY43321352	2021/04/25	2022/04/24
Power Meter	EPM-441A/8484A	GB37481494	2021/7/22	2022/7/21
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
R&S, universal Radio Communication Tester	CMU200	110 825	2021/7/22	2022/7/21
Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21

4. SAR MEASUREMENT SYSTEM VERIFICATION

4.1 Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
704	Simulated Tissue 750 MHz	43.833	0.851	42.15	0.89	3.99	-4.38	± 10
707.5	Simulated Tissue 750 MHz	43.784	0.88	42.13	0.89	3.93	-1.12	± 10
711	Simulated Tissue 750 MHz	43.251	0.883	42.11	0.89	2.71	-0.79	± 10
750	Simulated Tissue 750 MHz	42.405	0.893	41.9	0.89	1.21	0.34	± 10
782	Simulated Tissue 750 MHz	42.061	0.899	41.75	0.89	0.74	1.01	± 10
824.2	Simulated Tissue 750 MHz	41.906	0.913	41.55	0.9	0.86	1.44	± 10
826.4	Simulated Tissue 750 MHz	41.638	0.919	41.54	0.9	0.24	2.11	± 10
829	Simulated Tissue 750 MHz	41.522	0.925	41.53	0.9	-0.02	2.78	± 10
836.5	Simulated Tissue 750 MHz	41.468	0.932	41.5	0.9	-0.08	3.56	± 10
836.6	Simulated Tissue 750 MHz	41.262	0.934	41.5	0.9	-0.57	3.78	± 10
844	Simulated Tissue 750 MHz	41.148	0.945	41.5	0.91	-0.85	3.85	± 10
846.6	Simulated Tissue 750 MHz	40.945	0.949	41.5	0.91	-1.34	4.29	± 10
848.8	Simulated Tissue 750 MHz	40.233	0.951	41.5	0.91	-3.05	4.51	± 10

*Liquid Verification above was performed on 2022/02/07.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
1712.4	Simulated Tissue 1750 MHz	41.948	1.293	40.13	1.35	4.53	-4.22	± 10
1720	Simulated Tissue 1750 MHz	41.797	1.317	40.13	1.35	4.15	-2.44	± 10
1732.6	Simulated Tissue 1750 MHz	41.652	1.325	40.12	1.36	3.82	-2.57	± 10
1745	Simulated Tissue 1750 MHz	41.515	1.344	40.1	1.37	3.53	-1.9	± 10
1750	Simulated Tissue 1750 MHz	41.215	1.359	40.1	1.37	2.78	-0.8	± 10
1752.6	Simulated Tissue 1750 MHz	40.842	1.364	40.09	1.37	1.88	-0.44	± 10
1770	Simulated Tissue 1750 MHz	40.624	1.372	40.06	1.38	1.41	-0.58	± 10

*Liquid Verification above was performed on 2022/02/08.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	$\Delta\epsilon_r$	$\Delta\sigma$ (S/m)	
1850.2	Simulated Tissue 1900 MHz	40.583	1.343	40	1.4	1.46	-4.07	± 10
1852.4	Simulated Tissue 1900 MHz	40.571	1.369	40	1.4	1.43	-2.21	± 10
1860	Simulated Tissue 1900 MHz	40.284	1.382	40	1.4	0.71	-1.29	± 10
1880	Simulated Tissue 1900 MHz	39.178	1.403	40	1.4	-2.06	0.21	± 10
1900	Simulated Tissue 1900 MHz	39.173	1.417	40	1.4	-2.07	1.21	± 10
1907.6	Simulated Tissue 1900 MHz	38.904	1.437	40	1.4	-2.74	2.64	± 10
1909.8	Simulated Tissue 1900 MHz	38.487	1.446	40	1.4	-3.78	3.29	± 10

*Liquid Verification above was performed on 2022/02/09.

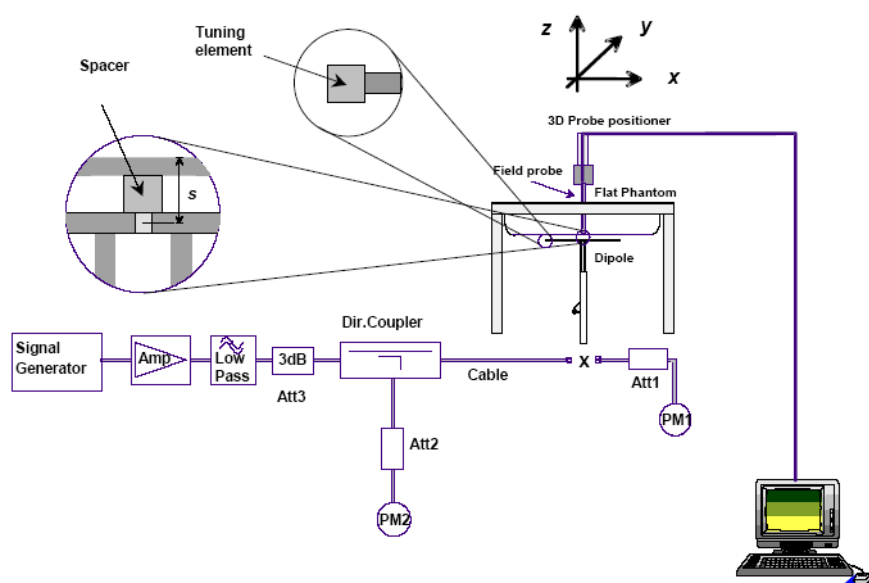
4.2 System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- $s = 15 \text{ mm} \pm 0,2 \text{ mm}$ for $300 \text{ MHz} \leq f \leq 1\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $1\,000 \text{ MHz} < f \leq 3\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $3\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2022/02/07	750 MHz	Simulated Tissue 750 MHz	100	1g	0.835	8.35	8.38	-0.36	± 10
2022/02/08	1750 MHz	Simulated Tissue 1750 MHz	100	1g	3.57	35.7	36.1	-1.11	± 10
2022/02/09	1900 MHz	Simulated Tissue 1900 MHz	100	1g	4.12	41.2	40.2	2.49	± 10

*The SAR values above are normalized to 1 Watt forward power.

4.3 SAR SYSTEM VALIDATION DATA

System Performance 750 MHz

DUT: D750V3; Type: 750 MHz; Serial: 1167

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.893$ S/m; $\epsilon_r = 42.405$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 750 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x141x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.06 W/kg

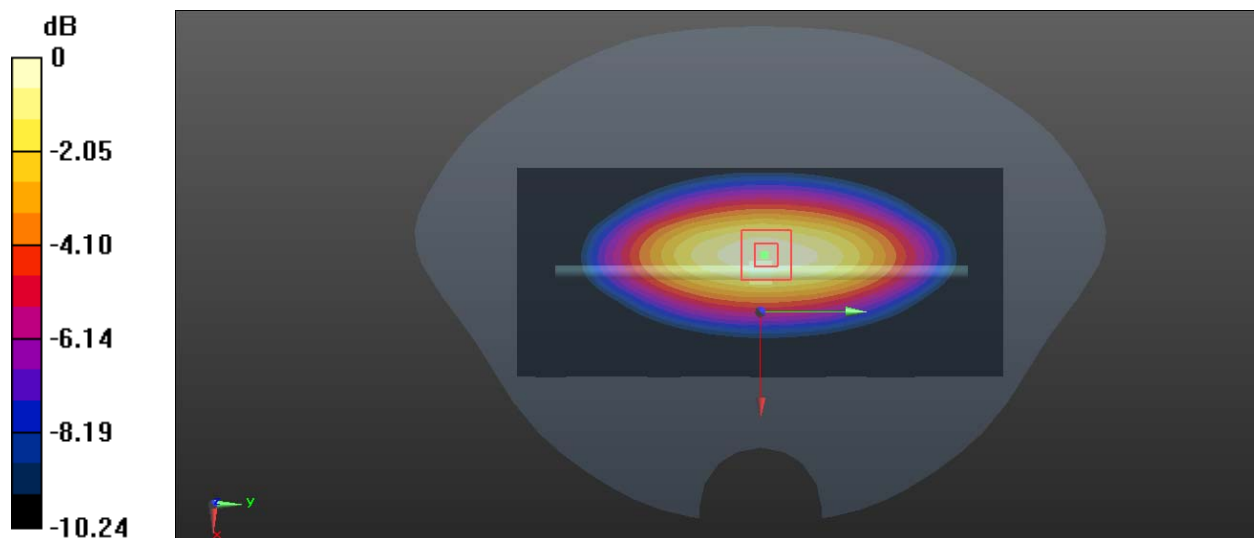
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 32.52 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.546 W/kg

Maximum value of SAR (measured) = 1.09 W/kg



System Performance 1750MHz**DUT: D1750V2; Type: 1750 MHz; Serial: 1141**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 41.215$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1750 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (1x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.52 W/kg

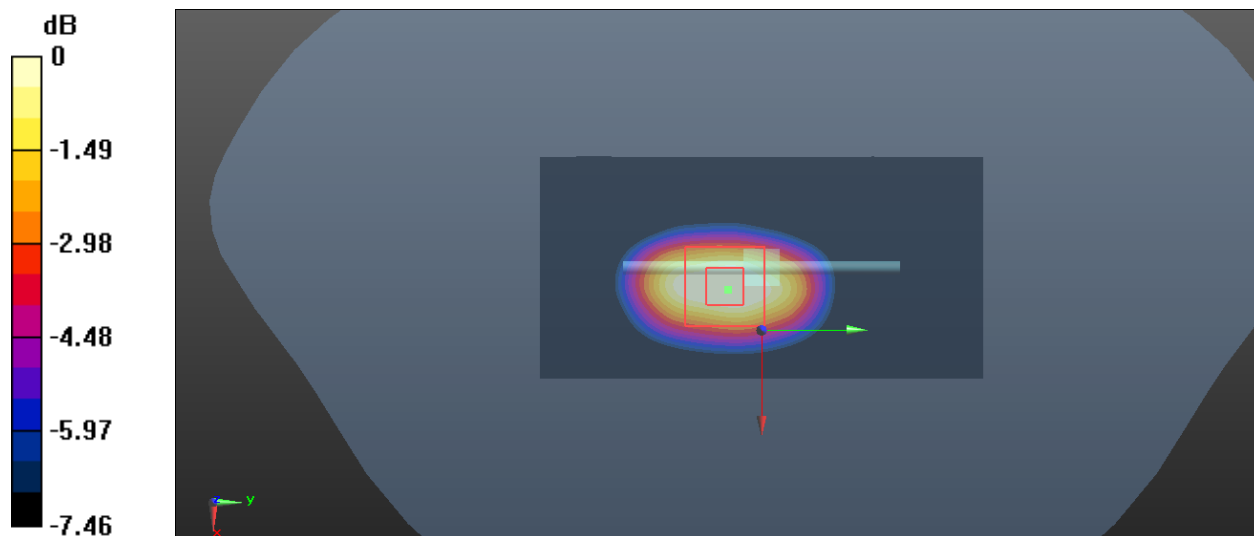
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=7mm, dz=5mm

Reference Value = 51.62 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 6.43 W/kg

SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.96 W/kg

Maximum value of SAR (measured) = 3.76 W/kg



System Performance 1900MHz**DUT: D1900V2; Type: 1900 MHz; Serial: 543**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 39.173$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1900 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 6.15 W/kg

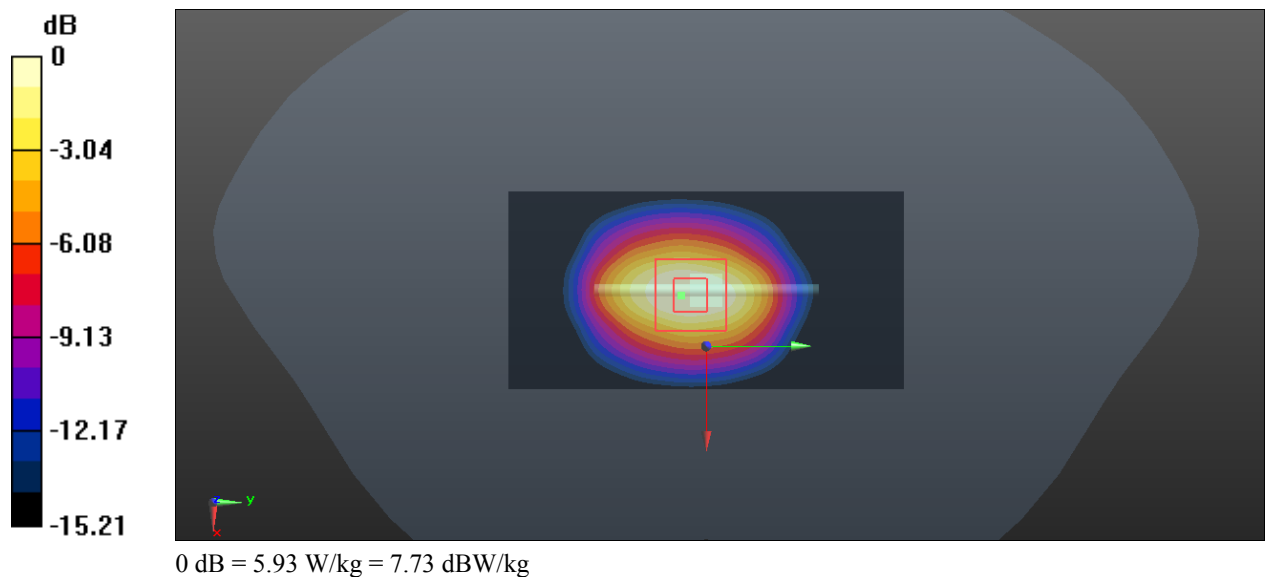
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 56.46 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 6.92 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.03 W/kg

Maximum value of SAR (measured) = 5.93 W/kg

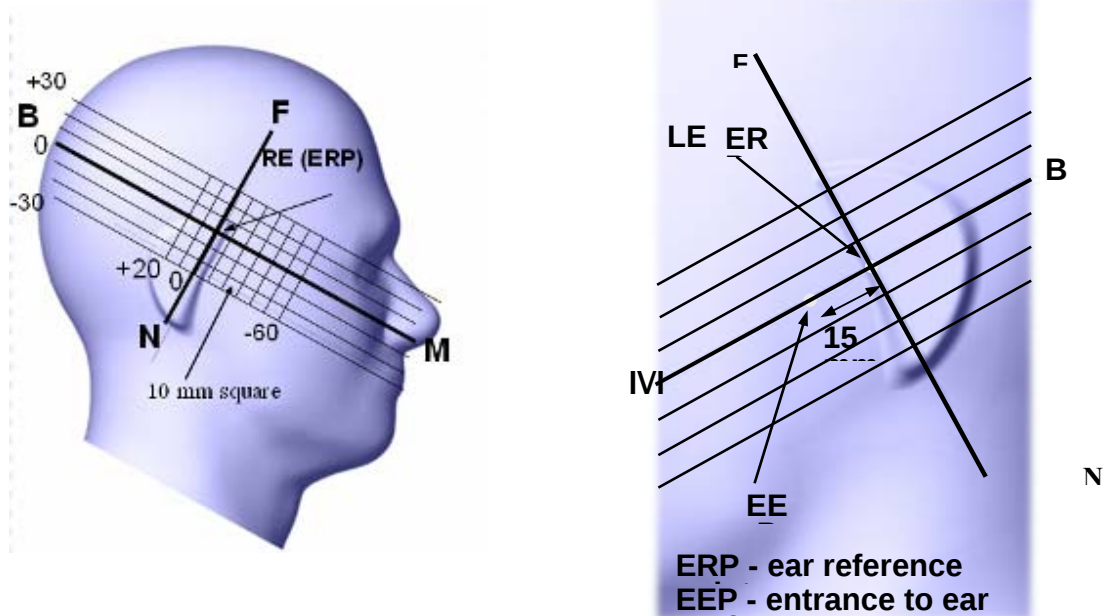


5. EUT TEST STRATEGY AND METHODOLOGY

5.1 Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the “test device reference point” located along the “vertical centerline” on the front of the device aligned to the “ear reference point”. The “test device reference point” should be located at the same level as the center of the earpiece region. The “vertical centerline” should bisect the front surface of the handset at its top and bottom edges. A “ear reference point” is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the “phantom reference plane” defined by the three lines joining the center of each “ear reference point” (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the “N-F” line defined along the base of the ear spacer that contains the “ear reference point”. For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The “test device reference point” is aligned to the “ear reference point” on the head phantom and the “vertical centerline” is aligned to the “phantom reference plane”. This is called the “initial ear position”. While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:



5.2 Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the “ear reference point” or along the “N-F” line for the SCC-34/SC-2 head phantom.

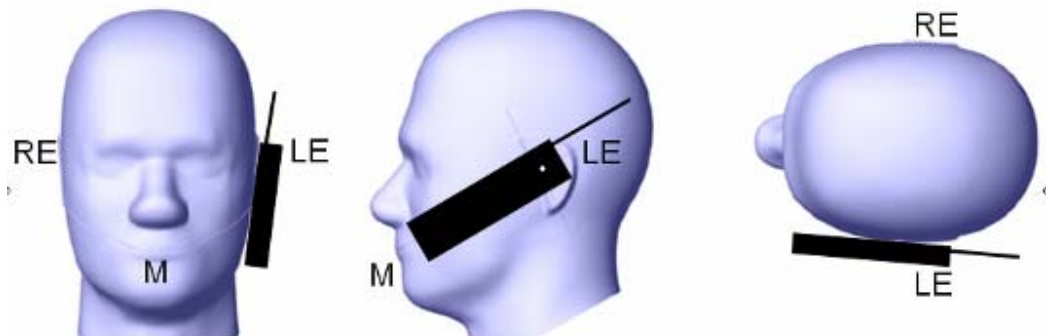
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



5.3 Ear/Tilt Position

With the handset aligned in the “Cheek/Touch Position”:

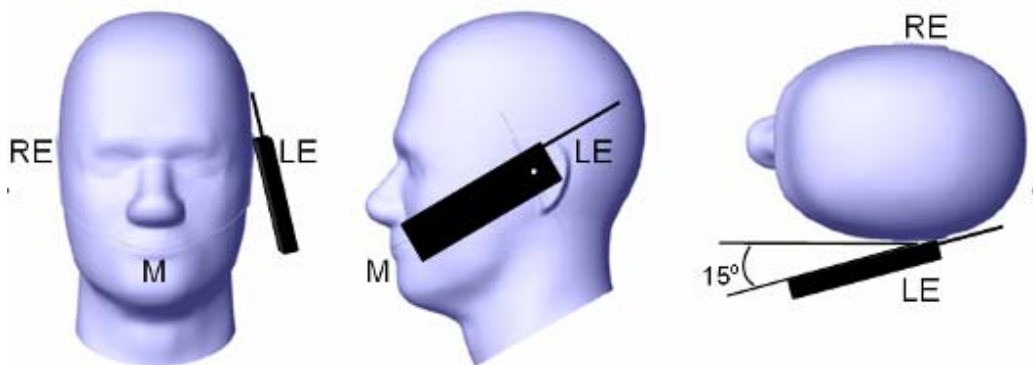
1) If the earpiece of the handset is not in full contact with the phantom’s ear spacer (in the “Cheek/Touch position”) and the peak SAR location for the “Cheek/Touch” position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the “initial ear position” by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both “ear reference points” (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the “test device reference point” until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both “ear reference points” until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and

right side of the head phantom in the “Cheek/Touch” and “Ear/Tilt” positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position



5.4 Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

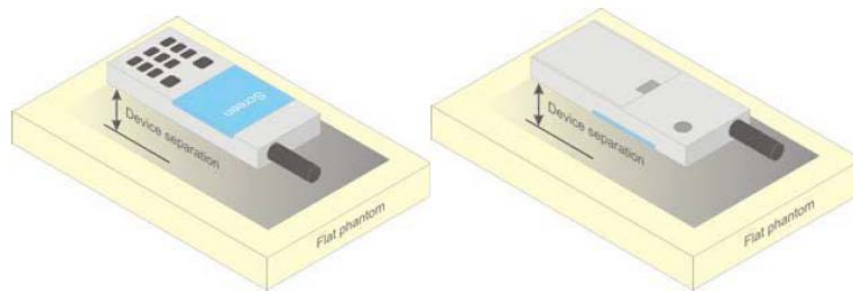


Figure 5 – Test positions for body-worn devices

5.5 Test Distance for SAR Evaluation

In this case the EUT(Equipment Under Test) is set 5mm away from the phantom, the test distance is 5mm.

5.6 SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

- 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. 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.

- 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

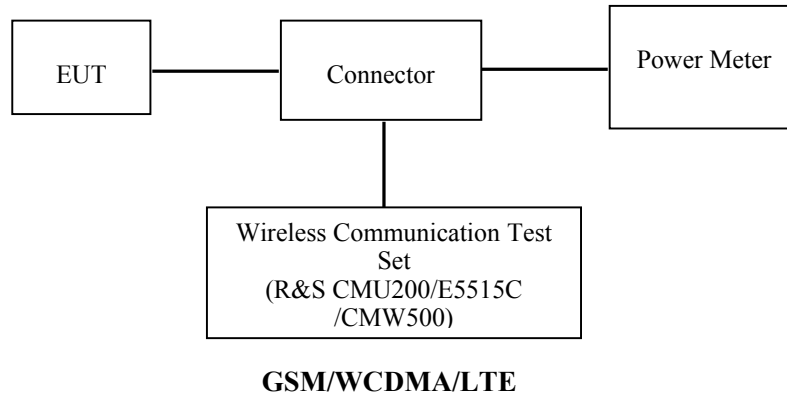
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

6. CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Test Procedure

The RF output of the transmitter was connected to the input of the Power Meter through Connector.



6.2 Description of Test Configuration

EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode.
Equipment Modifications:	No
EUT Exercise Software:	No
The maximum power was configured per 3GPP Standard for each operation modes as below setting:	
GSM/GPRS/EGPRS	
Function: Menu select > GSM Mobile Station > GSM 850/1900	
Press Connection control to choose the different menus	
Press RESET > choose all the reset all settings	
Connection Press Signal Off to turn off the signal and change settings	
Network Support > GSM + GPRS or GSM + EGSM	
Main Service > Packet Data	
Service selection > Test Mode A – Auto Slot Config. off	
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting	
> Slot configuration > Uplink/Gamma	
> 33 dBm for GPRS 850	
> 30 dBm for GPRS 1900	
> 27 dBm for EGPRS 850	
> 26 dBm for EGPRS 1900	
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel	
Frequency Offset > + 0 Hz	
Mode > BCCH and TCH	
BCCH Level > -85 dBm (May need to adjust if link is not stable)	
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]	
Channel Type > Off	
P0 > 4 dB	
Slot Config > Unchanged (if already set under MS signal)	
TCH > choose desired test channel	
Hopping > Off	
Main Timeslot > 3	
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)	
Bit Stream > 2E9-1 PSR Bit Stream	
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input	
Connection Press Signal on to turn on the signal and change settings	

WCDMA-Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c / β_d	8/15

WCDMA HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	12/15	15/15	15/15
	β_d	1 /15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c / β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR(dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs} = \beta_{hs} / \beta_c$	30/15			

WCDMA HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subset	1	2		4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30 15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.0	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	$A_{hs}=\beta_{hs}/\beta_c$	30/15				
HSUPA Specific Settings	DE-DPCCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate k ps	242.1	174.9	482.8	205.8	308.9
	Reference E_FCI	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

6.3 Maximum Target Output Power

Max Target Power(dBm)			
Mode/Band	Channel		
	Low	Middle	High
GSM 850	33.5	33.5	33.5
GPRS 1 TX Slot	33.5	33.5	33.5
GPRS 2 TX Slot	32.5	32.5	32.5
GPRS 3 TX Slot	32	32	32
GPRS 4 TX Slot	31	31	31
EDGE 1 TX Slot	28	28	28
EDGE 2 TX Slot	27	27	27
EDGE 3 TX Slot	26	26	26
EDGE 4 TX Slot	25	25	25
PCS 1900	31.5	31.5	31.5
GPRS 1 TX Slot	32	32	32
GPRS 2 TX Slot	31	31	31
GPRS 3 TX Slot	30	30	30
GPRS 4 TX Slot	29.5	29.5	29.5
EDGE 1 TX Slot	27.5	27.5	27.5
EDGE 2 TX Slot	27	27	27
EDGE 3 TX Slot	26	26	26
EDGE 4 TX Slot	25	25	25
WCDMA Band 2	22	22	22
HSDPA	22	22	22
HSUPA	22.5	22.5	22.5
WCDMA Band 4	22.2	22.2	22.2
HSDPA	22.2	22.2	22.2
HSUPA	22.2	22.2	22.2
WCDMA Band 5	22.5	22.5	22.5
HSDPA	22	22	22
HSUPA	22.5	22.5	22.5
LTE Band 2	21.2	21.2	21.2
LTE Band 4	21	21	21
LTE Band 5	21.5	21.5	21.5
LTE Band 12	23.5	23.5	23.5
LTE Band 13	21.5	21.5	21.5
LTE Band 17	23.5	23.5	23.5
LTE Band 66	21	21	21
Bluetooth BDR/EDR	7.5	7.5	7.5

6.4 Test Results:**GSM:**

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
GSM 850	128	824.2	33.13
	190	836.6	33.2
	251	848.8	33.33
PCS 1900	512	1850.2	31.49
	661	1880	31.13
	810	1909.8	31.26

GPRS:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	33.16	32.12	31.73	30.54
	190	836.6	33.25	32.31	31.58	30.27
	251	848.8	33.33	32.38	31.36	30.76
PCS 1900	512	1850.2	31.24	30.17	29.82	29.35
	661	1880	31.57	30.63	29.93	29.22
	810	1909.8	31.2	30.19	29.91	29.03

EDGE:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	27.98	26.55	25.38	24.3
	190	836.6	27.84	26.67	25.68	24.7
	251	848.8	27.92	26.67	25.13	24.44
PCS 1900	512	1850.2	27	26.55	25.61	24.49
	661	1880	27.26	26.54	25.51	24.46
	810	1909.8	27.1	26.38	25.77	24.43

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

The time based average power for GPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	24.16	26.12	27.48	27.54
	190	836.6	24.25	26.31	27.33	27.27
	251	848.8	24.33	26.38	27.11	27.76
PCS 1900	512	1850.2	22.24	24.17	25.57	26.35
	661	1880	22.57	24.63	25.68	26.22
	810	1909.8	22.2	24.19	25.66	26.03

The time based average power for EDGE

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	19.06	20.55	21.13	21.3
	190	836.6	18.84	20.67	21.43	21.7
	251	848.8	18.92	20.67	20.88	21.44
PCS 1900	512	1850.2	18	20.55	21.36	21.49
	661	1880	18.26	20.54	21.26	21.46
	810	1909.8	18.1	20.38	21.52	21.43

Note:

1. Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.
2. For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).
3. For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).

WCDMA:
Results (12.2kbps RMC)

Band	Frequency (MHz)	RF Output Power (dBm)
WCDMA Band 2	1852.4	21.71
	1880	21.98
	1907.6	21.6
WCDMA Band 4	1712.4	22.05
	1732.6	22.06
	1752.6	22.04
WCDMA Band 5	826.4	22.34
	836.6	22.21
	846.6	22.15

Results (HSDPA)

Band	Frequency (MHz)	RF Output Power (dBm)			
		Subset 1	Subset 2	Subset 3	Subset 4
WCDMA Band 2	1852.4	21.64	21.98	21.66	21.96
	1880	21.85	21.97	21.8	21.88
	1907.6	21.79	21.58	21.77	21.92
WCDMA Band 4	1712.4	22.04	21.95	21.81	21.62
	1732.6	22.05	21.97	21.39	21.58
	1752.6	21.72	21.57	21.35	21.84
WCDMA Band 5	826.4	21.82	21.95	21.91	21.9
	836.6	21.97	21.52	21.95	21.66
	846.6	21.96	21.53	21.76	21.55

Results (HSUPA)

Band	Frequency (MHz)	RF Output Power (dBm)				
		Subset 1	Subset 2	Subset 3	Subset 4	Subset 5
WCDMA Band 2	1852.4	21.75	21.92	21.67	21.9	21.97
	1880	21.7	21.81	21.95	21.83	22.02
	1907.6	22.03	21.68	21.89	21.47	21.67
WCDMA Band 4	1712.4	21.6	21.94	21.86	21.93	21.41
	1732.6	21.39	21.75	21.52	21.43	22.05
	1752.6	21.31	21.74	21.55	21.46	21.27
WCDMA Band 5	826.4	22.07	21.7	21.64	21.76	21.84
	836.6	21.62	22.15	22.1	21.94	21.55
	846.6	21.95	21.84	21.77	21.73	21.87

Note:

1. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model 1.
2. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

LTE Band 2:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.32	20.10	20.09
		1#3	0	0	20.49	20.36	20.22
		1#5	0	0	20.42	20.11	20.11
		3#0	1	1	20.35	20.29	20.26
		3#3	1	1	20.35	20.25	20.40
		6#0	1	1	19.33	19.10	19.22
	16-QAM	1#0	1	1	19.36	19.32	19.21
		1#3	1	1	19.12	19.19	19.19
		1#5	1	1	18.98	19.24	19.18
		3#0	2	2	19.46	19.39	19.50
		3#3	2	2	19.08	19.29	19.45
		6#0	2	2	18.06	18.29	18.33
3M	QPSK	1#0	0	0	20.34	20.36	20.21
		1#7	0	0	20.21	20.12	20.07
		1#14	0	0	20.63	20.36	19.95
		8#0	1	1	19.36	19.06	19.30
		8#7	1	1	19.40	19.10	19.20
		15#0	1	1	19.32	18.99	19.24
	16-QAM	1#0	1	1	19.87	19.20	19.24
		1#7	1	1	19.69	19.10	18.92
		1#14	1	1	19.64	19.60	18.81
		8#0	2	2	18.29	18.27	18.47
		8#7	2	2	18.40	18.33	18.21
		15#0	2	2	18.28	18.28	18.35
5M	QPSK	1#0	0	0	20.16	20.04	19.80
		1#12	0	0	20.17	19.98	19.95
		1#24	0	0	20.30	20.49	20.05
		12#0	1	1	19.37	19.10	19.24
		12#11	1	1	19.40	19.03	19.25
		25#0	1	1	19.45	19.04	19.22
	16-QAM	1#0	1	1	19.10	18.82	19.17
		1#12	1	1	18.63	18.98	18.66
		1#24	1	1	18.49	19.20	19.29
		12#0	2	2	18.36	17.78	18.34
		12#11	2	2	18.45	17.91	18.29
		25#0	2	2	18.52	18.19	18.20

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	20.53	20.17	20.01
		1#24	0	0	20.63	20.19	20.18
		1#49	0	0	20.41	20.29	20.30
		25#0	1	1	19.41	19.24	18.87
		25#24	1	1	19.36	19.17	19.28
		50#0	1	1	19.40	19.19	19.18
	16-QAM	1#0	1	1	19.86	19.26	18.66
		1#24	1	1	19.77	19.50	19.13
		1#49	1	1	19.59	19.59	19.30
		25#0	2	2	18.73	18.26	18.14
		25#24	2	2	18.58	18.14	18.58
		50#0	2	2	18.59	18.26	18.16
15M	QPSK	1#0	0	0	20.34	20.20	20.19
		1#37	0	0	20.30	20.12	19.98
		1#74	0	0	20.30	20.27	20.47
		36#0	1	1	19.49	19.25	19.14
		36#35	1	1	19.19	19.18	19.46
		75#0	1	1	19.57	19.20	19.12
	16-QAM	1#0	1	1	19.78	19.72	19.45
		1#37	1	1	19.44	19.31	19.19
		1#74	1	1	19.32	19.86	19.57
		36#0	2	2	18.60	18.25	17.96
		36#35	2	2	18.23	18.20	18.45
		75#0	2	2	18.47	18.23	18.13
20M	QPSK	1#0	0	0	20.91	20.88	20.57
		1#49	0	0	20.39	20.23	20.09
		1#99	0	0	20.13	20.60	20.56
		50#0	1	1	20.60	20.75	20.24
		50#49	1	1	19.27	19.15	19.12
		100#0	1	1	19.39	19.16	19.08
	16-QAM	1#0	1	1	19.87	19.08	19.65
		1#49	1	1	18.96	19.47	19.31
		1#99	1	1	18.82	19.61	20.03
		50#0	2	2	18.70	18.19	18.08
		50#49	2	2	18.19	18.47	18.21
		100#0	2	2	18.44	18.17	18.26

LTE Band 4:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.57	20.60	20.71
		1#3	0	0	20.68	20.54	20.77
		1#5	0	0	20.60	20.69	20.91
		3#0	1	1	20.73	20.79	20.75
		3#3	1	1	20.69	20.89	20.65
		6#0	1	1	19.53	19.84	19.57
	16-QAM	1#0	1	1	20.30	19.36	20.72
		1#3	1	1	20.24	19.51	20.66
		1#5	1	1	20.21	19.50	20.72
		3#0	2	2	19.78	19.82	19.95
		3#3	2	2	19.84	19.95	19.94
		6#0	2	2	19.21	19.07	18.84
3M	QPSK	1#0	0	0	20.52	20.70	20.76
		1#7	0	0	20.58	20.70	20.71
		1#14	0	0	20.50	20.63	20.84
		8#0	1	1	19.53	19.72	19.52
		8#7	1	1	19.66	19.74	19.86
		15#0	1	1	19.58	19.66	19.82
	16-QAM	1#0	1	1	20.01	20.52	19.73
		1#7	1	1	20.00	20.53	19.66
		1#14	1	1	20.10	20.45	19.80
		8#0	2	2	18.95	18.86	19.01
		8#7	2	2	18.87	18.91	19.07
		15#0	2	2	19.08	18.78	18.77
5M	QPSK	1#0	0	0	20.71	20.81	20.51
		1#12	0	0	20.54	20.84	20.58
		1#24	0	0	20.70	20.88	20.52
		12#0	1	1	19.62	19.67	19.81
		12#11	1	1	19.78	19.83	19.69
		25#0	1	1	19.50	19.77	19.80
	16-QAM	1#0	1	1	18.82	19.82	19.38
		1#12	1	1	18.84	19.91	19.43
		1#24	1	1	18.94	19.76	19.40
		12#0	2	2	19.08	18.77	18.84
		12#11	2	2	19.13	18.70	18.88
		25#0	2	2	19.06	18.79	18.58

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	20.58	20.78	20.92
		1#24	0	0	20.54	20.81	20.83
		1#49	0	0	20.65	20.77	20.79
		25#0	1	1	19.44	19.69	19.71
		25#24	1	1	19.63	19.77	19.80
		50#0	1	1	19.66	19.73	19.58
	16-QAM	1#0	1	1	19.90	19.80	19.17
		1#24	1	1	19.89	19.88	19.33
		1#49	1	1	19.95	19.86	19.30
		25#0	2	2	19.09	18.95	18.94
		25#24	2	2	19.11	19.16	18.82
		50#0	2	2	19.06	18.76	18.90
15M	QPSK	1#0	0	0	20.66	20.65	20.76
		1#37	0	0	20.56	20.72	20.80
		1#74	0	0	20.57	20.80	20.82
		36#0	1	1	19.67	19.83	19.66
		36#35	1	1	19.66	19.78	19.73
		75#0	1	1	19.53	19.75	19.60
	16-QAM	1#0	1	1	19.84	19.88	19.90
		1#37	1	1	19.85	19.90	19.97
		1#74	1	1	19.84	19.74	20.09
		36#0	2	2	19.16	19.18	18.72
		36#35	2	2	18.84	18.95	18.80
		75#0	2	2	19.21	18.78	18.74
20M	QPSK	1#0	0	0	20.89	20.64	20.64
		1#49	0	0	20.76	20.65	20.74
		1#99	0	0	20.87	20.80	20.80
		50#0	1	1	19.70	19.66	19.64
		50#49	1	1	19.83	19.75	19.74
		100#0	1	1	19.59	19.74	19.81
	16-QAM	1#0	1	1	19.46	20.19	20.21
		1#49	1	1	19.59	20.18	20.19
		1#99	1	1	19.85	20.29	20.40
		50#0	2	2	19.17	18.91	18.66
		50#49	2	2	18.89	18.83	18.98
		100#0	2	2	18.75	18.72	18.62

LTE Band 5:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.75	20.83	20.84
		1#3	0	0	20.80	20.87	20.83
		1#5	0	0	20.78	21.03	20.70
		3#0	1	1	20.99	20.94	20.85
		3#3	1	1	20.98	20.90	20.80
		6#0	1	1	19.76	19.78	19.90
	16-QAM	1#0	1	1	20.20	19.35	19.40
		1#3	1	1	20.26	19.43	19.62
		1#5	1	1	20.27	19.47	19.74
		3#0	2	2	19.81	19.95	19.91
		3#3	2	2	19.90	19.81	20.01
		6#0	2	2	19.62	19.17	19.30
3M	QPSK	1#0	0	0	20.73	20.75	20.80
		1#7	0	0	20.66	20.88	20.72
		1#14	0	0	20.98	20.83	20.91
		8#0	1	1	19.70	19.81	19.74
		8#7	1	1	19.94	19.72	19.82
		15#0	1	1	19.77	19.71	19.70
	16-QAM	1#0	1	1	20.12	20.25	19.35
		1#7	1	1	20.06	20.52	19.43
		1#14	1	1	19.98	20.54	19.35
		8#0	2	2	19.11	19.32	19.03
		8#7	2	2	19.18	19.00	19.10
		15#0	2	2	19.35	18.78	18.78
5M	QPSK	1#0	0	0	20.70	20.68	20.57
		1#12	0	0	20.94	20.84	20.65
		1#24	0	0	20.91	20.92	20.72
		12#0	1	1	19.82	19.72	19.65
		12#11	1	1	19.67	19.74	19.78
		25#0	1	1	19.67	19.80	19.79
	16-QAM	1#0	1	1	18.74	19.77	19.44
		1#12	1	1	18.80	19.98	19.33
		1#24	1	1	18.74	20.10	19.63
		12#0	2	2	19.34	19.15	18.93
		12#11	2	2	19.31	18.69	19.01
		25#0	2	2	19.36	18.97	18.66

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	20.74	20.88	20.75
		1#24	0	0	20.75	21.08	20.70
		1#49	0	0	20.74	20.97	20.69
		25#0	1	1	19.64	19.83	19.83
		25#24	1	1	20.84	20.93	20.75
		50#0	1	1	19.77	19.83	19.88
	16-QAM	1#0	1	1	19.74	19.96	19.25
		1#24	1	1	19.83	19.91	19.41
		1#49	1	1	19.93	19.88	19.24
		25#0	2	2	19.31	19.35	18.96
		25#24	2	2	19.11	19.03	18.97
		50#0	2	2	19.16	19.01	18.95

LTE Band 12:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	22.97	23.07	23.21
		1#3	0	0	23.07	23.21	23.08
		1#5	0	0	23.05	23.09	22.85
		3#0	1	1	23.07	23.11	23.22
		3#3	1	1	22.99	23.08	23.10
		6#0	1	1	22.06	22.54	21.86
	16-QAM	1#0	1	1	22.63	22.44	21.89
		1#3	1	1	22.59	23.17	21.67
		1#5	1	1	22.68	23.09	21.62
		3#0	2	2	22.33	22.26	22.22
		3#3	2	2	22.41	22.28	22.14
		6#0	2	2	21.41	21.31	21.37
3M	QPSK	1#0	0	0	23.07	22.99	23.21
		1#7	0	0	23.04	23.02	23.23
		1#14	0	0	23.13	23.11	23.09
		8#0	1	1	22.25	22.07	22.37
		8#7	1	1	22.22	22.49	22.08
		15#0	1	1	22.09	22.45	22.20
	16-QAM	1#0	1	1	22.49	22.54	21.98
		1#7	1	1	22.45	23.13	21.75
		1#14	1	1	22.39	23.20	21.69
		8#0	2	2	21.38	21.55	21.66
		8#7	2	2	21.55	21.53	21.47
		15#0	2	2	21.39	21.49	21.34
5M	QPSK	1#0	0	0	22.95	22.84	22.95
		1#12	0	0	23.20	23.05	22.92
		1#24	0	0	23.27	23.22	22.73
		12#0	1	1	22.07	22.09	21.87
		12#11	1	1	22.19	22.34	22.30
		25#0	1	1	22.05	22.54	22.17
	16-QAM	1#0	1	1	21.19	21.88	21.40
		1#12	1	1	21.19	22.46	21.82
		1#24	1	1	21.32	21.95	21.75
		12#0	2	2	21.30	21.28	21.24
		12#11	2	2	21.46	21.26	21.50
		25#0	2	2	21.54	21.46	21.44

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	22.82	23.06	23.17
		1#24	0	0	23.24	23.08	23.35
		1#49	0	0	23.14	23.03	23.24
		25#0	1	1	22.13	22.16	22.50
		25#24	1	1	22.90	23.06	22.91
		50#0	1	1	22.25	22.54	22.21
	16-QAM	1#0	1	1	22.23	22.42	21.40
		1#24	1	1	22.17	22.54	21.63
		1#49	1	1	22.56	22.09	21.67
		25#0	2	2	21.54	21.60	21.51
		25#24	2	2	21.47	21.38	21.58
		50#0	2	2	21.11	21.48	21.25

LTE Band 13:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	21.05	21.17	21.08
		1#12	0	0	20.91	21.16	21.01
		1#24	0	0	20.96	21.04	21.02
		12#0	1	1	20.02	20.15	20.22
		12#11	1	1	20.04	20.35	20.30
		25#0	1	1	20.08	20.22	20.33
	16-QAM	1#0	1	1	19.48	20.07	19.80
		1#12	1	1	19.29	20.31	19.88
		1#24	1	1	19.39	20.42	19.97
		12#0	2	2	19.24	19.21	19.29
		12#11	2	2	18.95	19.17	19.41
		25#0	2	2	19.16	19.33	19.13
10M	QPSK	1#0	0	0	/	21.09	/
		1#24	0	0	/	21.19	/
		1#49	0	0	/	21.15	/
		25#0	1	1	/	20.01	/
		25#24	1	1	/	20.93	/
		50#0	1	1	/	20.18	/
	16-QAM	1#0	1	1	/	20.22	/
		1#24	1	1	/	20.11	/
		1#49	1	1	/	20.42	/
		25#0	2	2	/	19.03	/
		25#24	2	2	/	19.46	/
		50#0	2	2	/	19.15	/

LTE Band 17:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	0	0	23.17	22.89	22.96
		1#12	0	0	22.98	23.09	22.94
		1#24	0	0	23.27	22.93	22.83
		12#0	1	1	22.19	22.03	21.97
		12#11	1	1	22.54	22.05	22.36
		25#0	1	1	22.02	21.97	22.39
	16-QAM	1#0	1	1	21.19	22.35	21.49
		1#12	1	1	21.09	21.90	21.79
		1#24	1	1	21.64	21.94	21.70
		12#0	2	2	21.44	21.06	21.06
		12#11	2	2	21.47	21.18	21.57
		25#0	2	2	21.38	21.26	21.43
10M	QPSK	1#0	0	0	22.96	22.93	23.16
		1#24	0	0	22.95	23.08	23.43
		1#49	0	0	23.12	23.13	23.16
		25#0	1	1	22.14	22.46	22.35
		25#24	1	1	22.02	21.98	22.43
		50#0	1	1	22.38	22.12	22.21
	16-QAM	1#0	1	1	22.22	22.16	21.39
		1#24	1	1	22.41	22.24	21.77
		1#49	1	1	22.36	22.62	21.74
		25#0	2	2	21.43	21.44	21.55
		25#24	2	2	21.18	21.11	21.58
		50#0	2	2	21.44	21.26	21.22

LTE Band 66:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	0	0	20.49	20.67	19.98
		1#3	0	0	20.60	20.71	20.03
		1#5	0	0	20.68	20.77	19.95
		3#0	1	1	20.61	20.56	20.71
		3#3	1	1	20.54	20.76	20.94
		6#0	1	1	19.55	19.73	19.85
	16-QAM	1#0	1	1	20.29	19.69	20.45
		1#3	1	1	20.36	19.86	20.47
		1#5	1	1	20.24	19.76	20.56
		3#0	2	2	19.77	19.61	-2.17
		3#3	2	2	19.82	19.60	19.94
		6#0	2	2	19.05	19.25	19.28
3M	QPSK	1#0	0	0	20.48	20.57	20.75
		1#7	0	0	20.45	20.46	20.80
		1#14	0	0	20.57	20.54	20.80
		8#0	1	1	19.74	19.63	19.90
		8#7	1	1	19.54	19.75	19.83
		15#0	1	1	19.46	19.76	19.92
	16-QAM	1#0	1	1	20.01	20.50	19.71
		1#7	1	1	20.03	20.47	19.73
		1#14	1	1	20.02	20.57	19.66
		8#0	2	2	18.76	18.89	19.21
		8#7	2	2	18.68	18.94	19.18
		15#0	2	2	18.79	18.91	19.06
5M	QPSK	1#0	0	0	20.50	20.80	20.72
		1#12	0	0	20.71	20.83	20.86
		1#24	0	0	20.50	20.84	20.77
		12#0	1	1	19.56	19.80	19.88
		12#11	1	1	19.64	19.66	19.77
		25#0	1	1	19.59	19.72	19.86
	16-QAM	1#0	1	1	18.88	19.92	19.56
		1#12	1	1	18.94	19.89	19.63
		1#24	1	1	18.82	19.90	19.70
		12#0	2	2	18.92	18.84	19.00
		12#11	2	2	19.00	18.88	18.97
		25#0	2	2	18.94	18.85	18.85

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
10M	QPSK	1#0	0	0	20.52	20.66	20.83
		1#24	0	0	20.61	20.66	20.83
		1#49	0	0	20.48	20.58	20.76
		25#0	1	1	19.62	19.69	19.82
		25#24	1	1	19.65	19.69	19.95
		50#0	1	1	19.53	19.59	19.82
	16-QAM	1#0	1	1	19.66	20.38	19.40
		1#24	1	1	19.75	20.32	19.35
		1#49	1	1	19.81	20.45	19.29
		25#0	2	2	18.81	18.95	19.07
		25#24	2	2	18.86	19.07	19.17
		50#0	2	2	18.96	18.98	19.00
15M	QPSK	1#0	0	0	20.55	20.48	20.79
		1#37	0	0	20.48	20.53	20.72
		1#74	0	0	20.50	20.63	20.92
		36#0	1	1	19.47	19.54	19.87
		36#35	1	1	19.75	19.87	19.79
		75#0	1	1	19.68	19.60	19.92
	16-QAM	1#0	1	1	19.78	20.26	20.00
		1#37	1	1	19.89	20.30	20.03
		1#74	1	1	19.95	20.34	20.16
		36#0	2	2	18.86	18.92	18.94
		36#35	2	2	18.92	19.07	19.15
		75#0	2	2	18.92	18.86	18.94
20M	QPSK	1#0	0	0	20.64	20.59	20.65
		1#49	0	0	20.71	20.63	20.72
		1#99	0	0	20.86	20.73	20.88
		50#0	1	1	19.68	19.69	19.79
		50#49	1	1	19.67	19.51	19.70
		100#0	1	1	19.69	19.82	19.81
	16-QAM	1#0	1	1	19.63	20.33	20.45
		1#49	1	1	19.68	20.26	20.45
		1#99	1	1	19.54	20.54	20.69
		50#0	2	2	18.84	19.07	19.01
		50#49	2	2	18.88	19.07	19.08
		100#0	2	2	18.82	19.01	19.07

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. The CMW500 Wideband Radio Communication tester is used for LTE output power measurements and SAR testing. Closed loop power control is used to keep the radio transmitters the max output power during the test.
3. KDB941225D05v02- SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
BDR(GFSK)	2402	6.45
	2441	5.28
	2480	4.68
EDR($\pi/4$ -DQPSK)	2402	7.17
	2441	5.94
	2480	5.28
EDR(8DPSK)	2402	7.25
	2441	5.85
	2480	5.25

7. Standalone SAR test exclusion considerations

Antennas Location:



Note: The LTE DIV antenna can not transmit, and is receiving only.

7.1 Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
Bluetooth	2480	7.5	5.62	0	1.8	3	NO

Note: The bluetooth based peak output power for calculation.

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

7.2 Standalone SAR estimation:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)
BT Head	2480	7.5	5.62	0	0.24
BT Body	2480	7.5	5.62	5	0.24

Note: The bluetooth based Peak power for calculation.

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \left[\frac{\sqrt{f(\text{GHz})}}{x} \right]$$

W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion

8. SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

8.1 SAR Test Data

Environmental Conditions

Temperature:	22.1-23.5℃	22.4-23.1℃	21.6-22.8℃
Relative Humidity:	43 %	36 %	35 %
ATM Pressure:	101 kPa	101.4 kPa	101.5 kPa
Test Date:	2022/02/07	2022/02/08	2022/02/09

Testing was performed by Karl Gong, Ken Zong, Way Li.

GSM 850:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	824.2	GSM	/	/	/	/	/	/
	836.6	GSM	33.2	33.5	1.072	0.176	0.19	1#
	848.8	GSM	/	/	/	/	/	/
Head Left Tilt	824.2	GSM	/	/	/	/	/	/
	836.6	GSM	33.2	33.5	1.072	0.037	0.04	2#
	848.8	GSM	/	/	/	/	/	/
Head Right Cheek	824.2	GSM	/	/	/	/	/	/
	836.6	GSM	33.2	33.5	1.072	0.186	0.20	3#
	848.8	GSM	/	/	/	/	/	/
Head Right Tilt	824.2	GSM	/	/	/	/	/	/
	836.6	GSM	33.2	33.5	1.072	0.047	0.05	4#
	848.8	GSM	/	/	/	/	/	/
Body Worn Back (5mm)	824.2	GSM	/	/	/	/	/	/
	836.6	GSM	33.2	33.5	1.072	0.247	0.27	5#
	848.8	GSM	/	/	/	/	/	/
Body Back (5mm)	824.2	GPRS	/	/	/	/	/	/
	836.6	GPRS	30.27	31	1.183	0.278	0.33	6#
	848.8	GPRS	/	/	/	/	/	/

Note:

1. When the 1-g SAR is less than half of the limit, testing for low and high channel is optional.
2. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.
3. The EUT transmit and receive through the same GSM antenna while testing SAR.

PCS 1900:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1850.2	GSM	/	/	/	/	/	/
	1880	GSM	31.13	31.5	1.089	0.451	0.49	7#
	1909.8	GSM	/	/	/	/	/	/
Head Left Tilt	1850.2	GSM	/	/	/	/	/	/
	1880	GSM	31.13	31.5	1.089	0.023	0.03	8#
	1909.8	GSM	/	/	/	/	/	/
Head Right Cheek	1850.2	GSM	/	/	/	/	/	/
	1880	GSM	31.13	31.5	1.089	0.285	0.31	9#
	1909.8	GSM	/	/	/	/	/	/
Head Right Tilt	1850.2	GSM	/	/	/	/	/	/
	1880	GSM	31.13	31.5	1.089	0.031	0.03	10#
	1909.8	GSM	/	/	/	/	/	/
Body Worn Back (5mm)	1850.2	GSM	/	/	/	/	/	/
	1880	GSM	31.13	31.5	1.089	0.229	0.25	11#
	1909.8	GSM	/	/	/	/	/	/
Body Back (5mm)	1850.2	GPRS	29.35	29.5	1.035	0.765	0.79	12#
	1880	GPRS	29.22	29.5	1.067	0.811	0.87	13#
	1909.8	GPRS	29.03	29.5	1.114	0.736	0.82	14#

Note:

1. When the 10-g SAR is less than half of the limit, testing for low and high channel is optional.
2. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.
3. The EUT transmit and receive through the same GSM antenna while testing SAR.

WCDMA Band 2:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.98	22	1.005	0.652	0.66	15#
	1907.6	RMC	/	/	/	/	/	/
Head Left Tilt	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.98	22	1.005	0.17	0.17	16#
	1907.6	RMC	/	/	/	/	/	/
Head Right Cheek	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.98	22	1.005	0.42	0.42	17#
	1907.6	RMC	/	/	/	/	/	/
Head Right Tilt	1852.4	RMC	/	/	/	/	/	/
	1880	RMC	21.98	22	1.005	0.146	0.15	18#
	1907.6	RMC	/	/	/	/	/	/
Body Back (5mm)	1852.4	RMC	21.71	22	1.069	1.03	1.10	19#
	1880	RMC	21.98	22	1.005	1.16	1.17	20#
	1907.6	RMC	21.6	22	1.096	1.11	1.22	21#

WCDMA Band 4:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.06	22.2	1.033	0.297	0.31	22#
	1752.6	RMC	/	/	/	/	/	/
Head Left Tilt	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.06	22.2	1.033	0.249	0.26	23#
	1752.6	RMC	/	/	/	/	/	/
Head Right Cheek	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.06	22.2	1.033	0.233	0.24	24#
	1752.6	RMC	/	/	/	/	/	/
Head Right Tilt	1712.4	RMC	/	/	/	/	/	/
	1732.6	RMC	22.06	22.2	1.033	0.128	0.13	25#
	1752.6	RMC	/	/	/	/	/	/
Body Back (5mm)	1712.4	RMC	22.05	22.2	1.035	1.03	1.07	26#
	1732.6	RMC	22.06	22.2	1.033	1.15	1.19	27#
	1752.6	RMC	22.04	22.2	1.038	1.01	1.05	28#

WCDMA Band 5:

EUT Position	Frequency (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
					Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.21	22.5	1.069	0.652	0.70	29#
	846.6	RMC	/	/	/	/	/	/
Head Left Tilt	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.21	22.5	1.069	0.613	0.66	30#
	846.6	RMC	/	/	/	/	/	/
Head Right Cheek	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.21	22.5	1.069	0.605	0.65	31#
	846.6	RMC	/	/	/	/	/	/
Head Right Tilt	826.4	RMC	/	/	/	/	/	/
	836.6	RMC	22.21	22.5	1.069	0.476	0.51	32#
	846.6	RMC	/	/	/	/	/	/
Body Back (5mm)	826.4	RMC	22.34	22.5	1.038	1.15	1.19	33#
	836.6	RMC	22.21	22.5	1.069	1.07	1.14	34#
	846.6	RMC	22.15	22.5	1.084	1.01	1.09	35#

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.
2. The EUT transmit and receive through the same antenna while testing SAR.
3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
4. KDB 941225 D01-Body SAR is not required for HSUPA/HSDPA when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
5. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

LTE Band 2:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	20.88	21.2	1.076	0.35	0.38	36#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	20.75	21.2	1.109	0.286	0.32	37#
Head Left Tilt	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	20.88	21.2	1.076	0.038	0.04	38#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	20.75	21.2	1.109	0.029	0.03	39#
Head Right Cheek	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	20.88	21.2	1.076	0.157	0.17	40#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	20.75	21.2	1.109	0.123	0.14	41#
Head Right Tilt	1860	20	1RB	/	/	/	/	/	/
	1880	20	1RB	20.88	21.2	1.076	0.043	0.05	42#
	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	20.75	21.2	1.109	0.040	0.04	43#
Body Back (5mm)	1860	20	1RB	20.91	21.2	1.069	0.862	0.92	44#
	1880	20	1RB	20.88	21.2	1.076	0.909	0.98	45#
	1900	20	1RB	20.57	21.2	1.156	0.827	0.96	46#
	1880	20	50%RB	20.75	21.2	1.109	0.643	0.71	47#

LTE Band 5:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	21.08	21.5	1.102	0.426	0.47	48#
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	20.93	21.5	1.14	0.341	0.39	49#
Head Left Tilt	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	21.08	21.5	1.102	0.093	0.10	50#
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	20.93	21.5	1.14	0.074	0.08	51#
Head Right Cheek	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	21.08	21.5	1.102	0.16	0.18	52#
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	20.93	21.5	1.14	0.142	0.16	53#
Head Right Tilt	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	21.08	21.5	1.102	0.062	0.07	54#
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	20.93	21.5	1.14	0.031	0.04	55#
Body Back (5mm)	829	10	1RB	/	/	/	/	/	/
	836.5	10	1RB	21.08	21.5	1.102	0.703	0.77	56#
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	20.93	21.5	1.14	0.611	0.70	57#

LTE Band 12&17:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.08	23.5	1.102	0.06	0.07	58#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.06	23.5	1.107	0.047	0.05	59#
Head Left Tilt	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.08	23.5	1.102	0.013	0.01	60#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.06	23.5	1.107	0.00735	0.01	61#
Head Right Cheek	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.08	23.5	1.102	0.066	0.07	62#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.06	23.5	1.107	0.057	0.06	63#
Head Right Tilt	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.08	23.5	1.102	0.015	0.02	64#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.06	23.5	1.107	0.010	0.01	65#
Body Back (5mm)	704	10	1RB	/	/	/	/	/	/
	707.5	10	1RB	23.08	23.5	1.102	0.104	0.11	66#
	711	10	1RB	/	/	/	/	/	/
	707.5	10	50%RB	23.06	23.5	1.107	0.078	0.09	67#

Note: The E-UTRA Operating Band 17 is a subset of band 12, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

LTE Band 13:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	782	10	1RB	21.19	21.5	1.074	0.179	0.19	68#
	782	10	50%RB	20.93	21.5	1.14	0.121	0.14	69#
Head Left Tilt	782	10	1RB	21.19	21.5	1.074	0.046	0.05	70#
	782	10	50%RB	20.93	21.5	1.14	0.032	0.04	71#
Head Right Cheek	782	10	1RB	21.19	21.5	1.074	0.121	0.13	72#
	782	10	50%RB	20.93	21.5	1.14	0.102	0.12	73#
Head Right Tilt	782	10	1RB	21.19	21.5	1.074	0.042	0.05	74#
	782	10	50%RB	20.93	21.5	1.14	0.031	0.04	75#
Body Back (5mm)	782	10	1RB	21.19	21.5	1.074	0.301	0.32	76#
	782	10	50%RB	20.93	21.5	1.14	0.223	0.25	77#

LTE Band 66&4:

EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1g SAR (W/kg), Limit=1.6W/kg			
						Scaled Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	20.73	21	1.064	0.336	0.36	78#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	19.69	21	1.352	0.216	0.30	79#
Head Left Tilt	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	20.73	21	1.064	0.034	0.04	80#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	19.69	21	1.352	0.027	0.04	81#
Head Right Cheek	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	20.73	21	1.064	0.195	0.21	82#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	19.69	21	1.352	0.152	0.21	83#
Head Right Tilt	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	20.73	21	1.064	0.047	0.05	84#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	19.69	21	1.352	0.031	0.04	85#
Body Back (5mm)	1720	20	1RB	/	/	/	/	/	/
	1745	20	1RB	20.73	21	1.064	0.716	0.76	86#
	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	19.69	21	1.352	0.563	0.76	87#

Note: The E-UTRA Operating Band 4 is a subset of band 66, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

Note:

1. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
2. KDB941225D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.
3. When the SAR value is less than half of the limit, testing for other channels are optional.
4. Worst case SAR for 50% RB allocation is selected to be tested.
5. KDB941225D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
6. KDB941225D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is < 1.45 W/kg, tests for the remaining required test channels are optional.
7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent

channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

8. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

9. SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These 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 re-mounted 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 .

Note: 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.

The Highest Measured SAR Configuration in Each Frequency Band

Head

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
/	/	/	/	/	/	/

Body

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
750MHz (650-850MHz)	WCDMA Band 5	826.4	Body Back	1.15	1.11	1.04
1750MHz (1650-1850MHz)	WCDMA Band 4	1732.6	Body Back	1.15	1.09	1.06
1900MHz (1850-2000MHz)	WCDMA Band 2	1880	Body Back	1.16	1.07	1.06

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 .
2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. 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.

10. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities		
Transmitter Combination	Simultaneous?	Hotspot?
WWAN(GSM/WCDMA/LTE) + Bluetooth	√	×

Simultaneous and Hotspot SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		Σ SAR < 1.6W/kg
		SAR1	SAR2	
GSM 850+Bluetooth	Head Left Cheek	0.19	0.24	0.43
	Head Left Tilt	0.04	0.24	0.28
	Head Right Cheek	0.2	0.24	0.44
	Head Right Tilt	0.05	0.24	0.29
	Body Worn Back	0.27	0.24	0.51
	Body Back	0.33	0.24	0.57
PCS1900 +Bluetooth	Head Left Cheek	0.49	0.24	0.73
	Head Left Tilt	0.03	0.24	0.27
	Head Right Cheek	0.31	0.24	0.55
	Head Right Tilt	0.03	0.24	0.27
	Body Worn Back	0.25	0.24	0.49
	Body Back	0.87	0.24	1.11
WCDMA Band 2+ Bluetooth	Head Left Cheek	0.66	0.24	0.90
	Head Left Tilt	0.17	0.24	0.41
	Head Right Cheek	0.42	0.24	0.66
	Head Right Tilt	0.15	0.24	0.39
	Body Back	1.22	0.24	1.46
WCDMA Band 4+ Bluetooth	Head Left Cheek	0.31	0.24	0.55
	Head Left Tilt	0.26	0.24	0.50
	Head Right Cheek	0.24	0.24	0.48
	Head Right Tilt	0.13	0.24	0.37
	Body Back	1.19	0.24	1.43
WCDMA Band 5+ Bluetooth	Head Left Cheek	0.70	0.24	0.94
	Head Left Tilt	0.66	0.24	0.90
	Head Right Cheek	0.65	0.24	0.89
	Head Right Tilt	0.51	0.24	0.75
	Body Back	1.19	0.24	1.43

Mode(SAR1+SAR2)	Position	Reported SAR(W/kg)		Σ SAR < 1.6W/kg
		SAR1	SAR2	
LTE Band 2+ Bluetooth	Head Left Cheek	0.38	0.24	0.62
	Head Left Tilt	0.04	0.24	0.28
	Head Right Cheek	0.17	0.24	0.41
	Head Right Tilt	0.05	0.24	0.29
	Body Back	0.98	0.24	1.22
LTE Band 5+ Bluetooth	Head Left Cheek	0.47	0.24	0.71
	Head Left Tilt	0.10	0.24	0.34
	Head Right Cheek	0.18	0.24	0.42
	Head Right Tilt	0.07	0.24	0.31
	Body Back	0.77	0.24	1.01
LTE Band 12&17+ Bluetooth	Head Left Cheek	0.07	0.24	0.31
	Head Left Tilt	0.01	0.24	0.25
	Head Right Cheek	0.07	0.24	0.31
	Head Right Tilt	0.02	0.24	0.26
	Body Back	0.11	0.24	0.35
LTE Band 13+ Bluetooth	Head Left Cheek	0.19	0.24	0.43
	Head Left Tilt	0.05	0.24	0.29
	Head Right Cheek	0.13	0.24	0.37
	Head Right Tilt	0.05	0.24	0.29
	Body Back	0.32	0.24	0.56
LTE Band 66&4+ Bluetooth	Head Left Cheek	0.36	0.24	0.60
	Head Left Tilt	0.04	0.24	0.28
	Head Right Cheek	0.21	0.24	0.45
	Head Right Tilt	0.05	0.24	0.29
	Body Back	0.76	0.24	1.00

Conclusion:

Sum of SAR: Σ SAR $\leq$ 1.6 W/kg for 1g Body SAR, therefore simultaneous transmission SAR with Volume Scans is **not required**.

11. SAR Plots

Test Plot 1#: GSM 850_Mid_Head Left Cheek

DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1

Communication System: Generic GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.243 W/kg

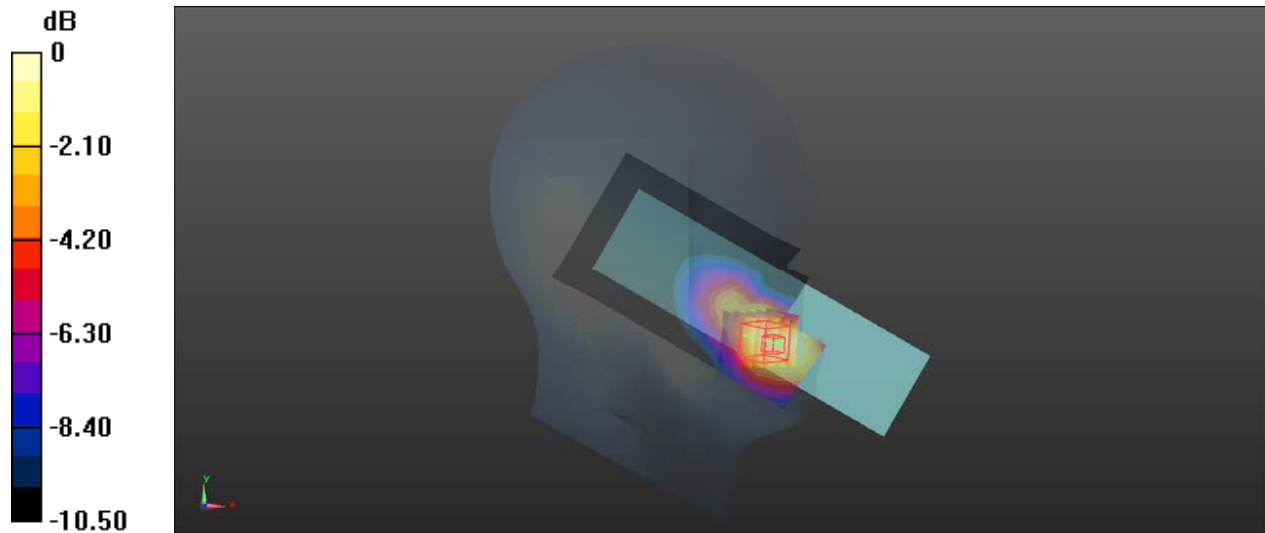
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.726 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.262 W/kg

SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.119 W/kg

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



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

Test Plot 2#: GSM 850_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

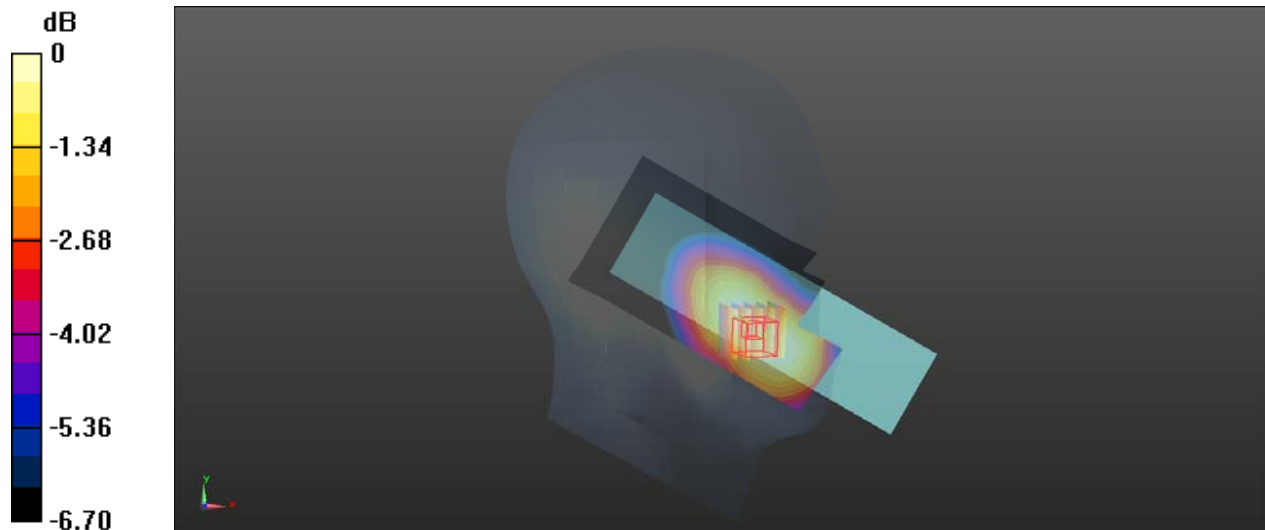
Communication System: Generic GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0450 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.889 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.0470 W/kg
SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.030 W/kg
Maximum value of SAR (measured) = 0.0440 W/kg



Test Plot 3#: GSM 850_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

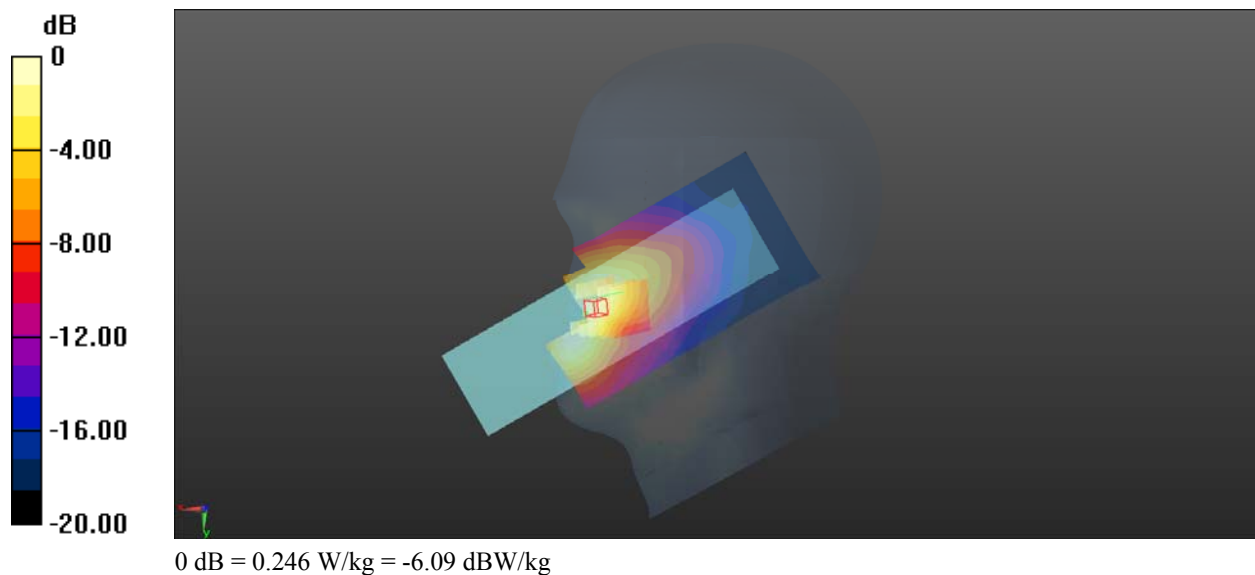
Communication System: Generic GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.263 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.177 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.186 W/kg; SAR(10 g) = n.a.
Maximum value of SAR (measured) = 0.246 W/kg



Test Plot 4#: GSM 850_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

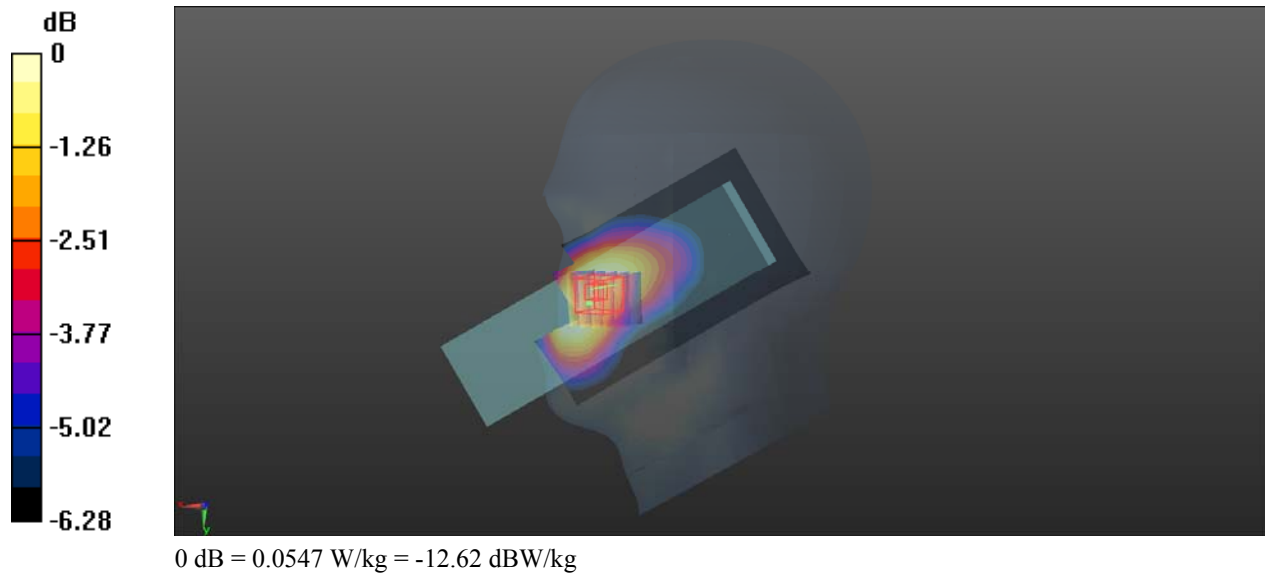
Communication System: Generic GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0605 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.816 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0690 W/kg
SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.037 W/kg
Maximum value of SAR (measured) = 0.0547 W/kg



Test Plot 5#: GSM 850_Mid_Body Worn Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

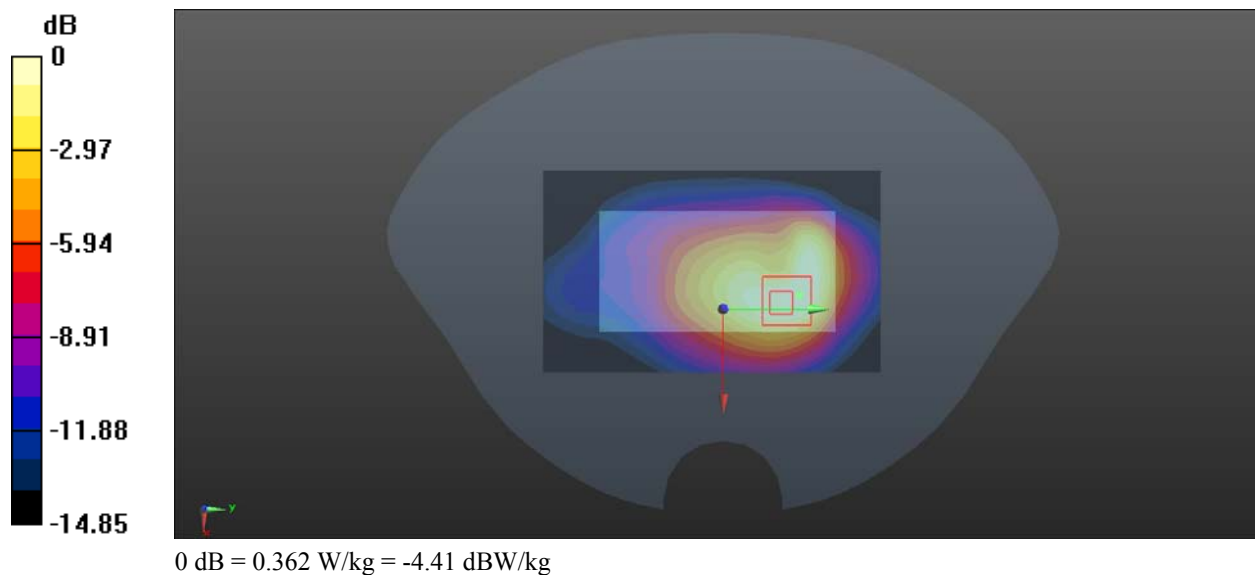
Communication System: Generic GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.410 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 12.99 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.461 W/kg
SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.146 W/kg
Maximum value of SAR (measured) = 0.362 W/kg



Test Plot 6#: GSM 850_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic GPRS-4 slots; Frequency: 836.6 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.407 W/kg

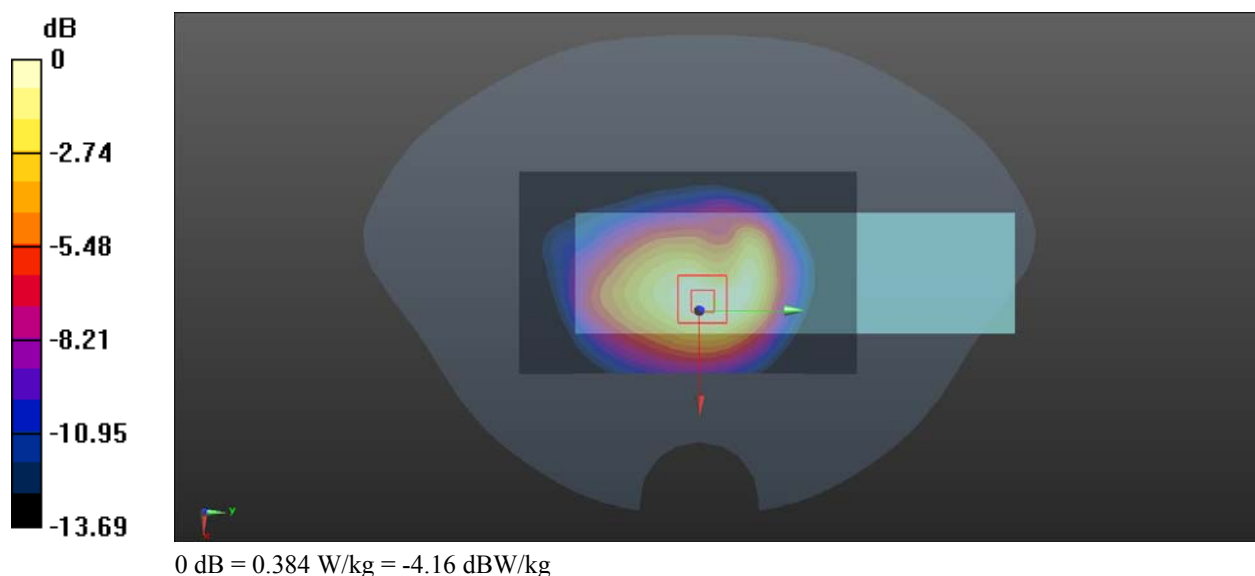
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.74 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.384 W/kg



Test Plot 7#: PCS 1900 _Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic GSM; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.591 W/kg

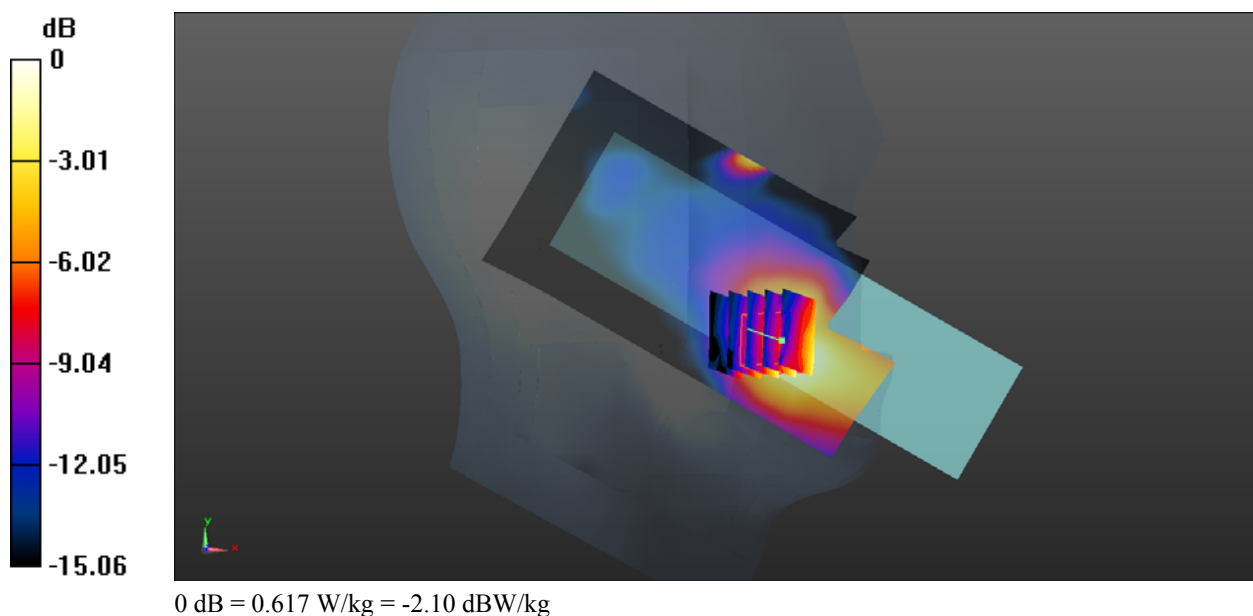
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.598 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.703 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.617 W/kg



Test Plot 8#:PCS 1900_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

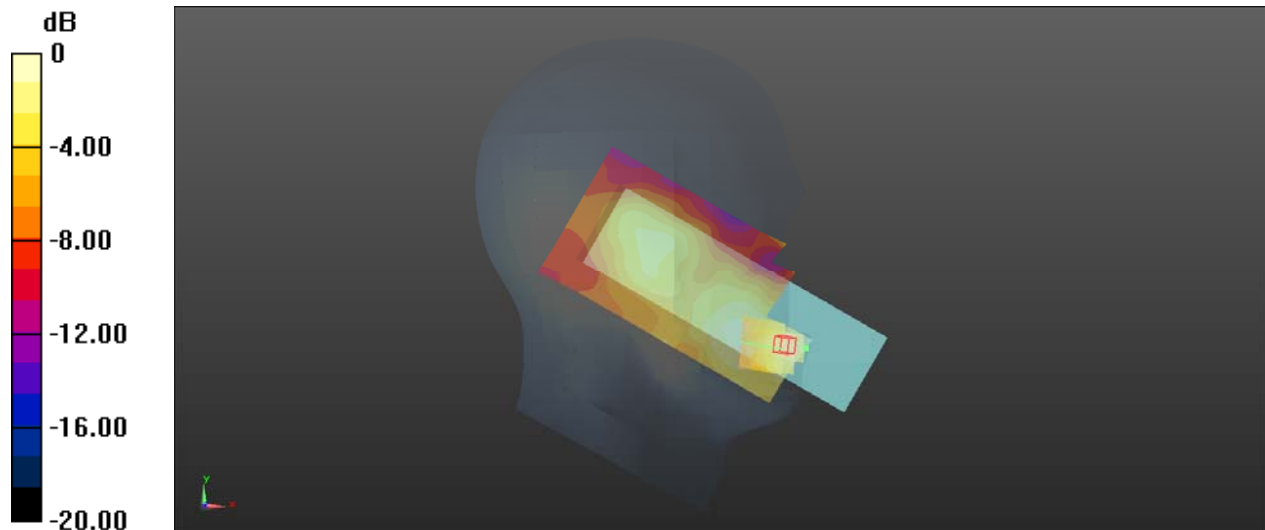
Communication System: Generic GSM; Frequency: 1880 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0243 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.767 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.0320 W/kg
SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.015 W/kg
Maximum value of SAR (measured) = 0.0277 W/kg



0 dB = 0.0277 W/kg = -15.58 dBW/kg

Test Plot 9#: PCS 1900_Mid _Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

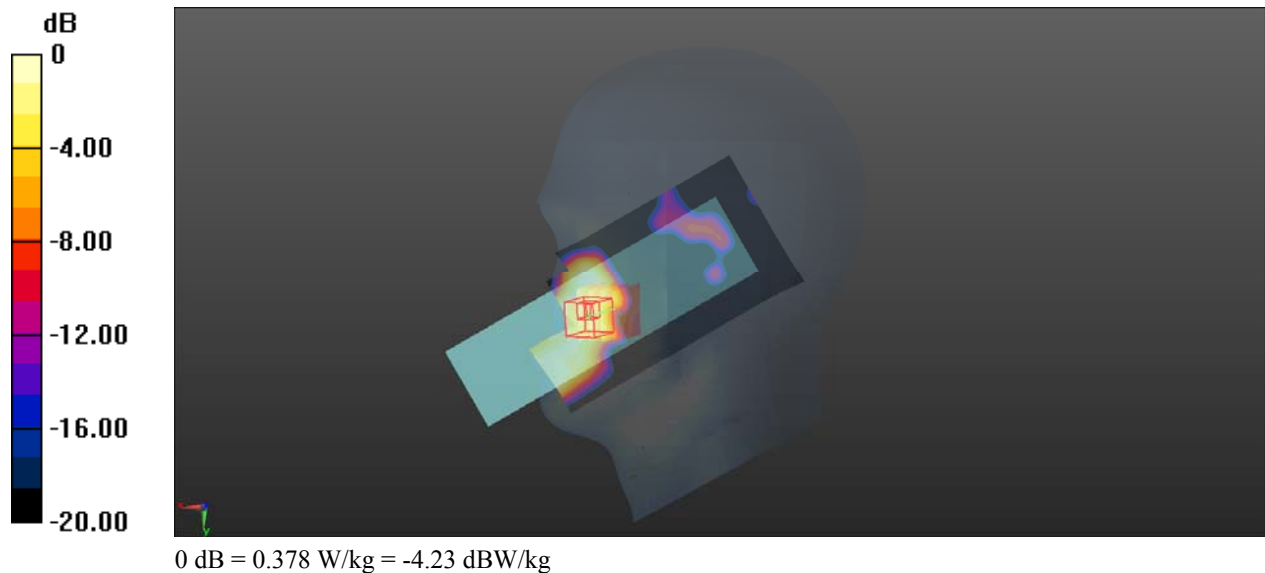
Communication System: Generic GSM; Frequency: 1880 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.631 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 5.204 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.691 W/kg
SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.185 W/kg
Maximum value of SAR (measured) = 0.378 W/kg



Test Plot 10#: PCS 1900_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

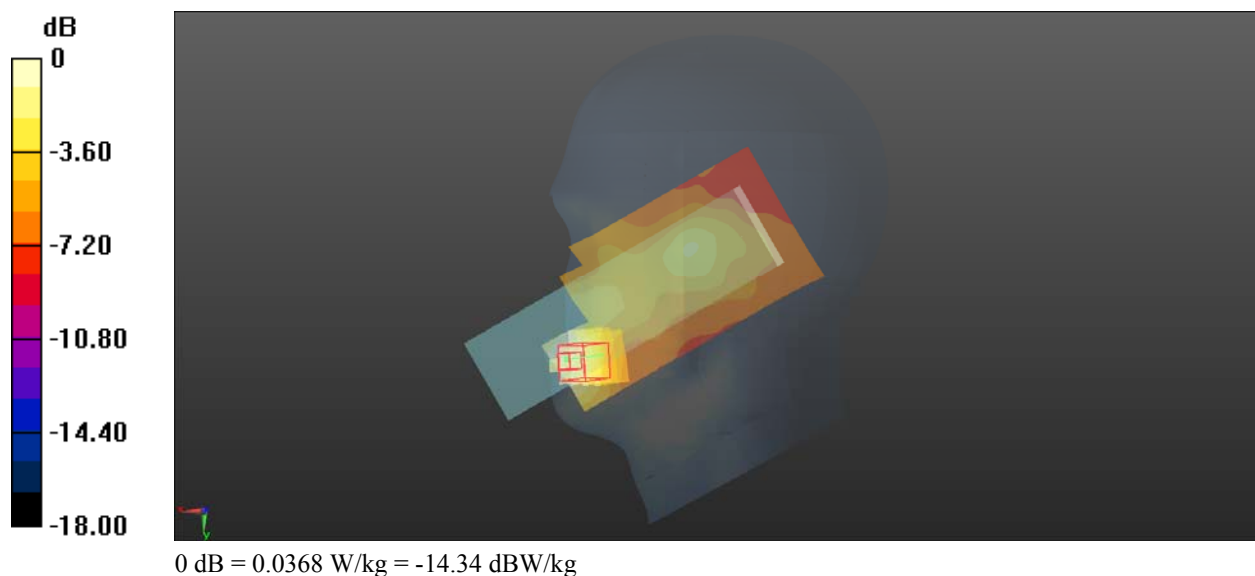
Communication System: Generic GSM; Frequency: 1880 MHz; Duty Cycle: 1:8
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0395 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.043 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.0420 W/kg
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.023 W/kg
Maximum value of SAR (measured) = 0.0368 W/kg



Test Plot 11#: PCS 1900_Mid_Body Worn Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic GSM; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.448 W/kg

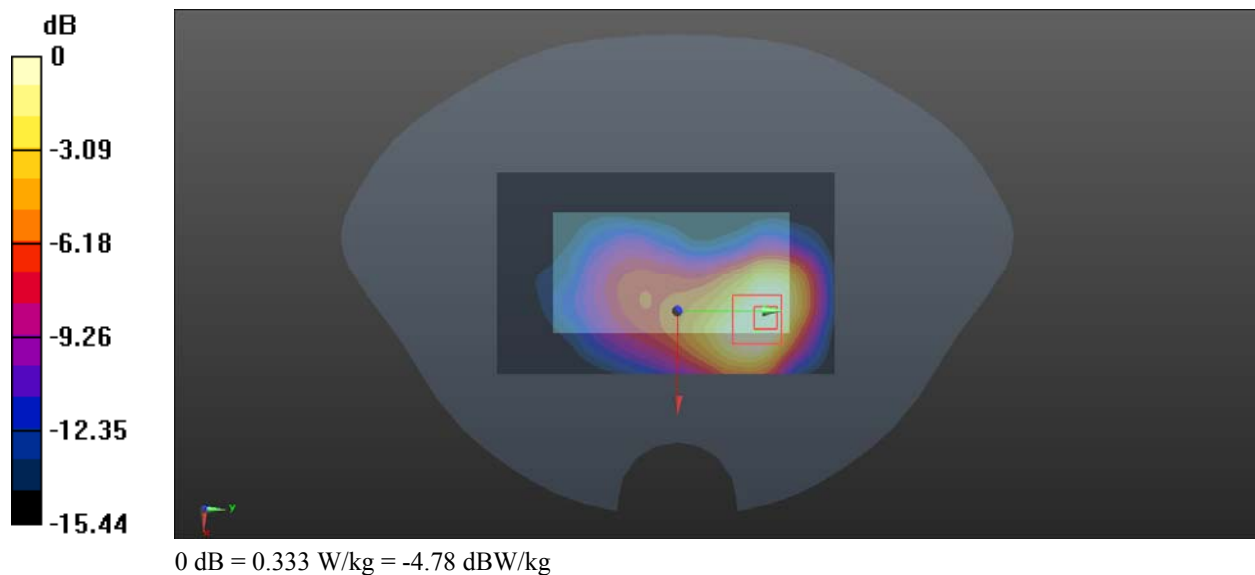
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.866 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.460 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.333 W/kg



Test Plot 12#: PCS 1900_Low_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

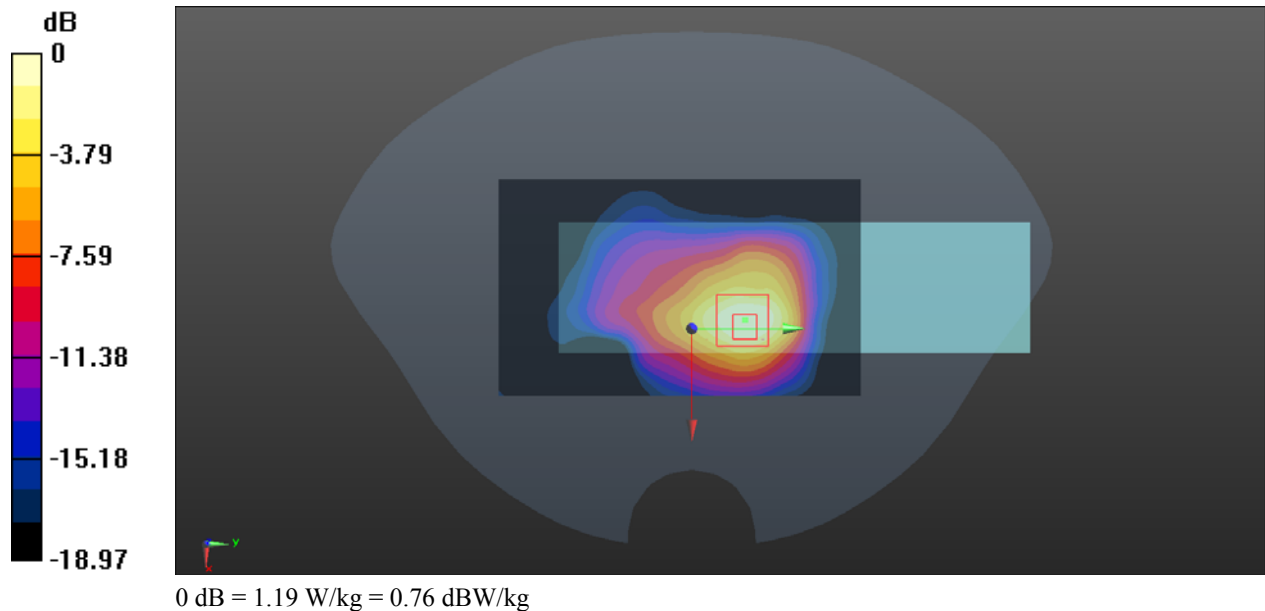
Communication System: Generic GPRS-4 slots; Frequency: 1850.2 MHz; Duty Cycle: 1:2
Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.343$ S/m; $\epsilon_r = 40.583$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1850.2 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.31 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 12.57 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.79 W/kg
SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.377 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



Test Plot 13#: PCS 1900_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

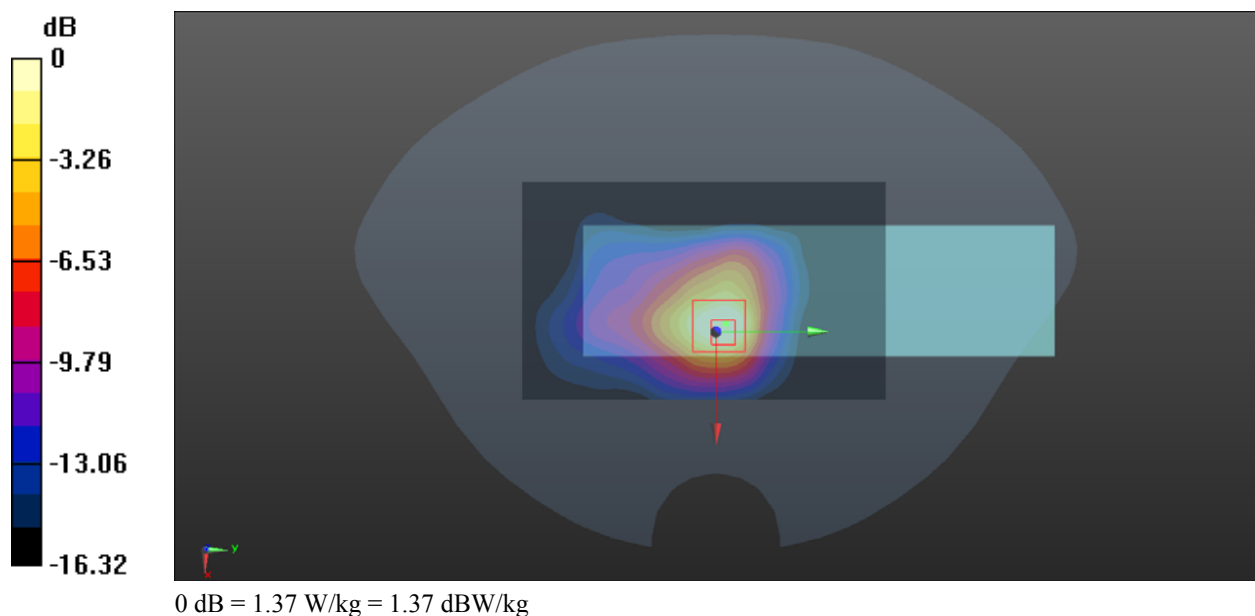
Communication System: Generic GPRS-4 slots; Frequency: 1880 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.403 \text{ S/m}$; $\epsilon_r = 39.178$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 1.71 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 17.36 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 2.03 W/kg **SAR(1 g) = 0.811 W/kg ; SAR(10 g) = 0.401 W/kg** Maximum value of SAR (measured) = 1.37 W/kg 

Test Plot 14#: PCS 1900_High_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic GPRS-4 slots; Frequency: 1909.8 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.446$ S/m; $\epsilon_r = 38.487$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1909.8 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

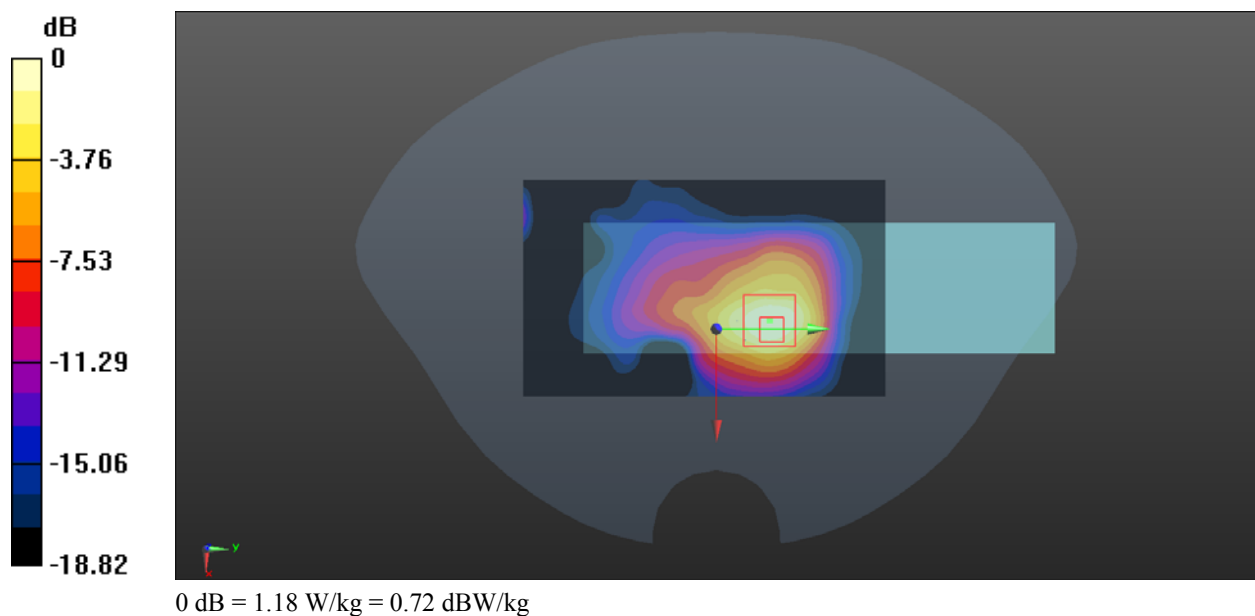
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.78 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.357 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



Test Plot 15#: WCDMA Band_2_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

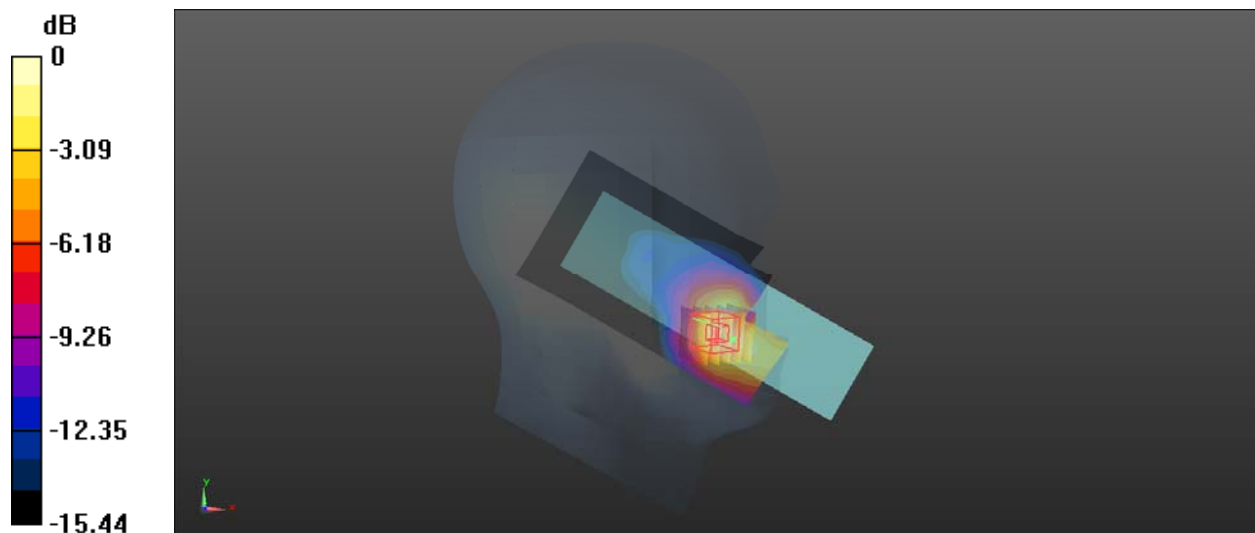
Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.403 \text{ S/m}$; $\epsilon_r = 39.178$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 0.894 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 3.119 V/m ; Power Drift = -0.18 dB Peak SAR (extrapolated) = 1.07 W/kg **SAR(1 g) = 0.652 W/kg ; SAR(10 g) = 0.375 W/kg** Maximum value of SAR (measured) = 0.902 W/kg 0 dB = 0.902 W/kg = -0.45 dBW/kg

Test Plot 16#: WCDMA Band_2_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

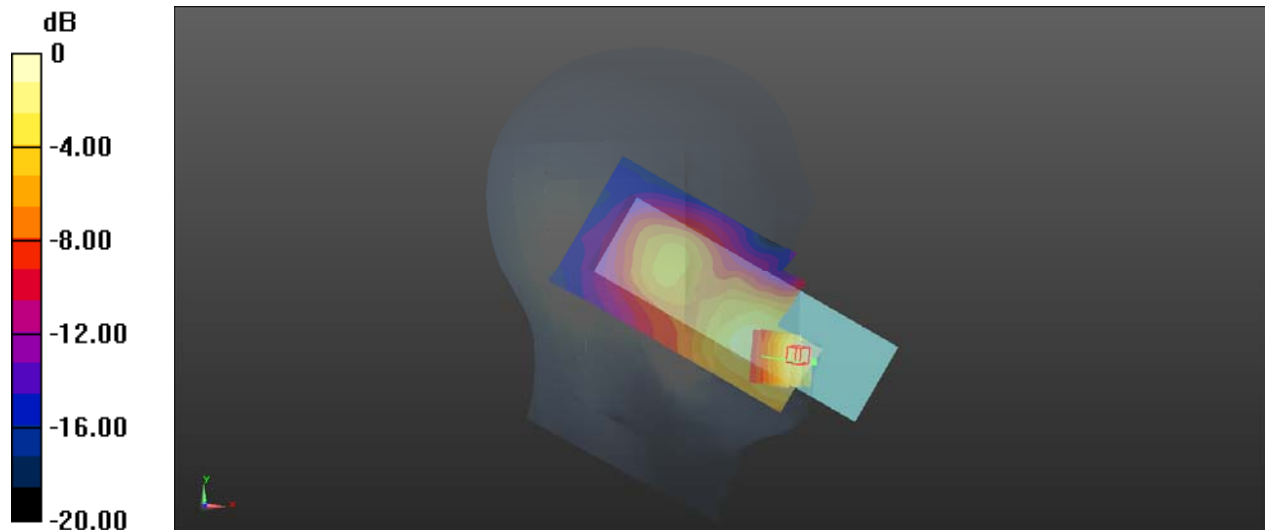
Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.189 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 4.556 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.227 W/kg
SAR(1 g) = 0.170 W/kg; SAR(10 g) = n.a.
Maximum value of SAR (measured) = 0.207 W/kg



0 dB = 0.207 W/kg = -6.84 dBW/kg

Test Plot 17#: WCDMA Band_2_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.551 W/kg

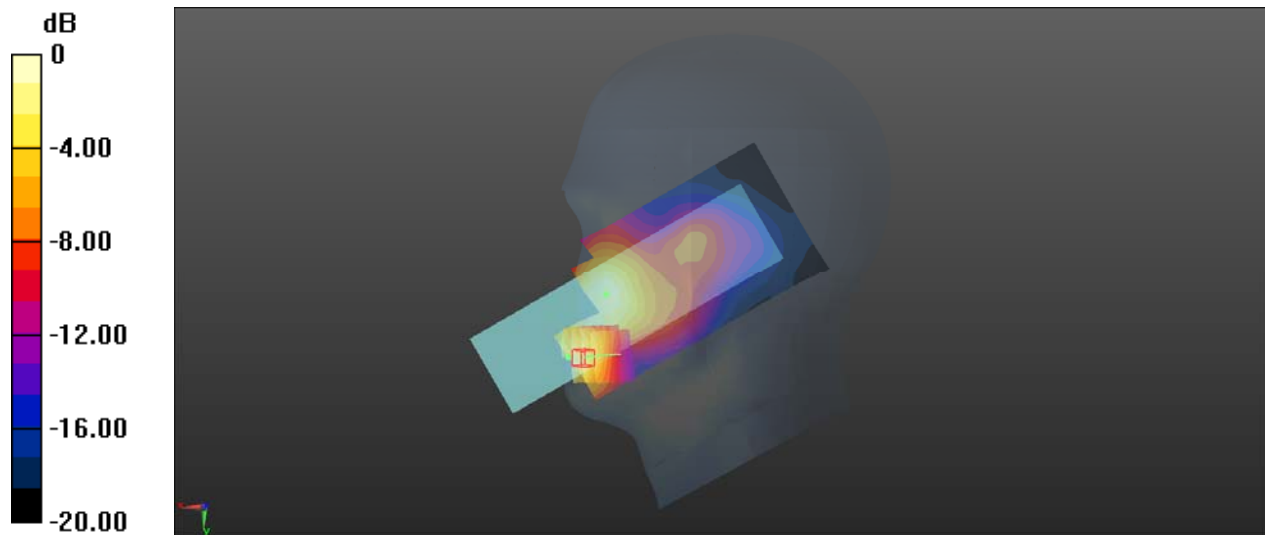
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.903 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = n.a.

Maximum value of SAR (measured) = 0.572 W/kg



Test Plot 18#: WCDMA Band_2_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.212 W/kg

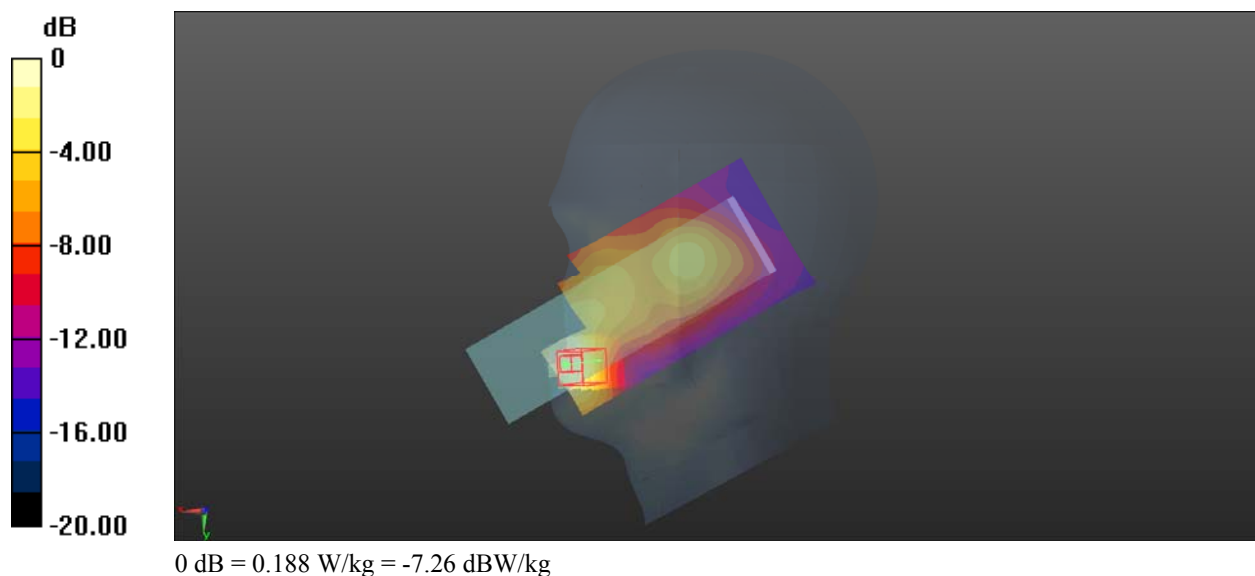
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.332 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.216 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.095 W/kg

Maximum value of SAR (measured) = 0.188 W/kg



Test Plot 19#: WCDMA Band_2_Low_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

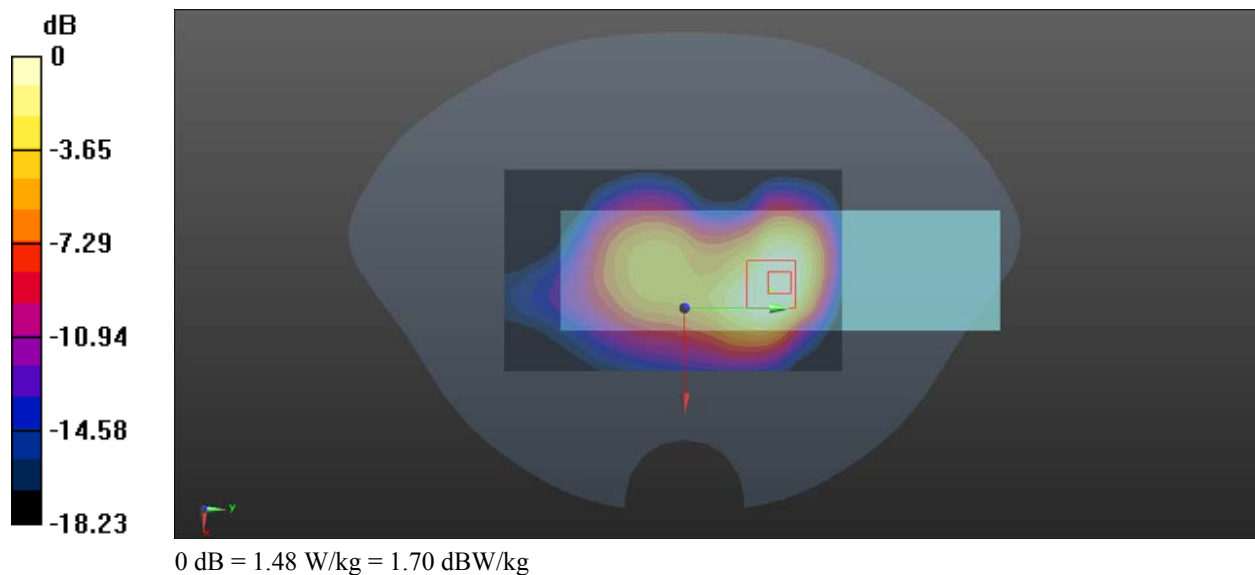
Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 40.571$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1852.4 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.91 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 17.36 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.00 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.581 W/kg
Maximum value of SAR (measured) = 1.48 W/kg



Test Plot 20#: WCDMA Band_2_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.403 \text{ S/m}$; $\epsilon_r = 39.178$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.09 W/kg

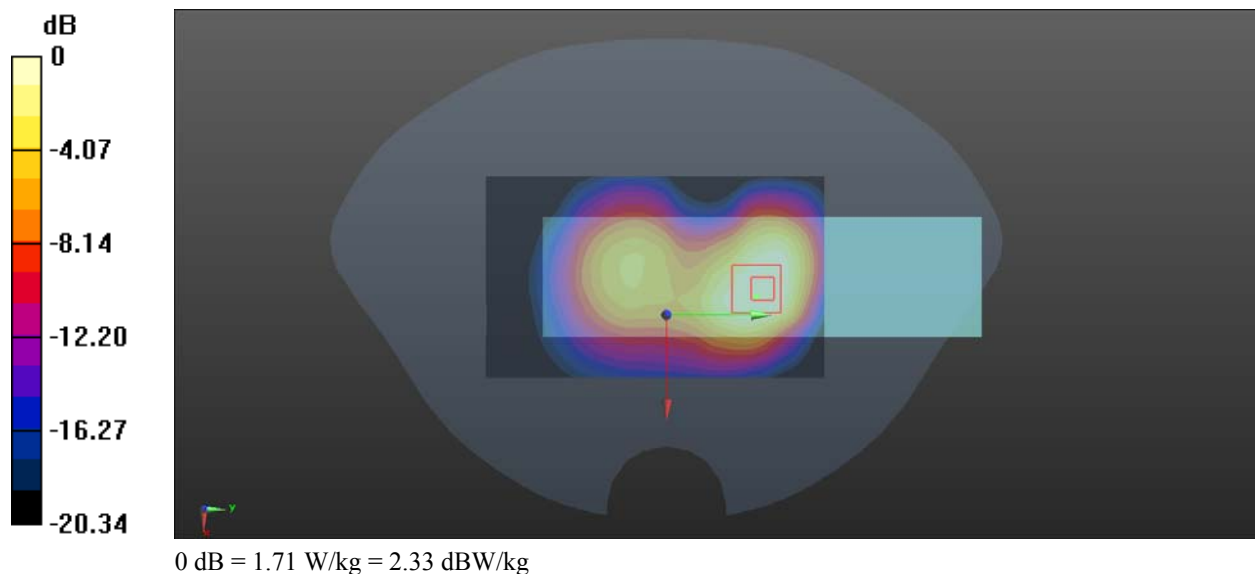
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.84 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.670 W/kg

Maximum value of SAR (measured) = 1.71 W/kg



Test Plot 21#: WCDMA Band_2_High_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

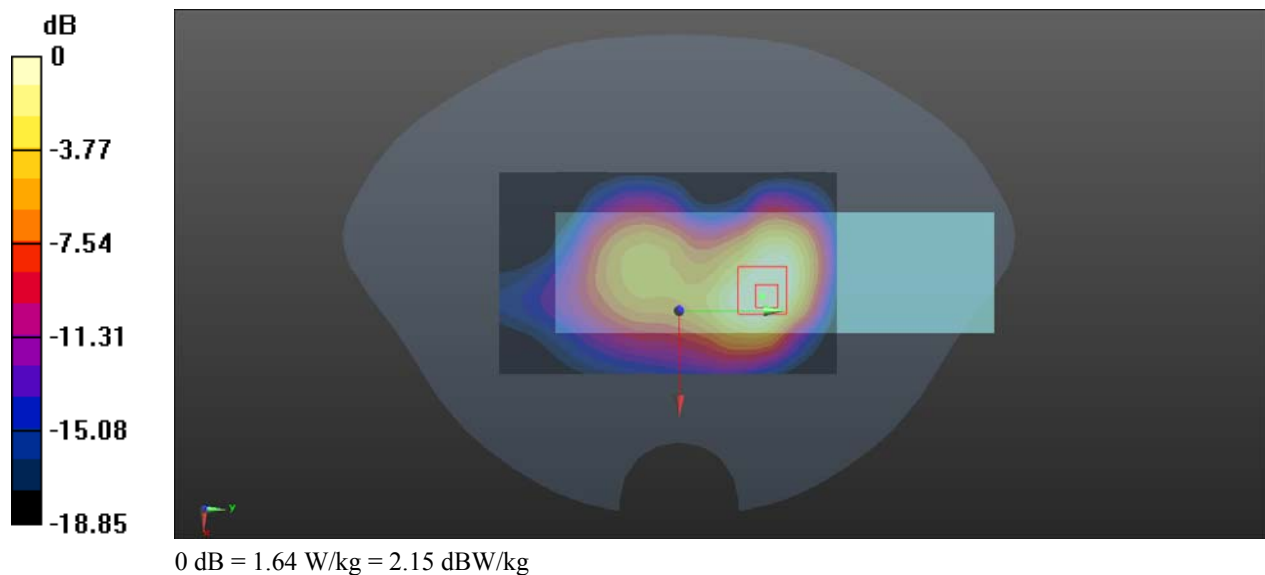
Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.437$ S/m; $\epsilon_r = 38.904$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1907.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 2.17 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 16.34 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.21 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.632 W/kg
Maximum value of SAR (measured) = 1.64 W/kg



Test Plot 22#: WCDMA Band_4_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

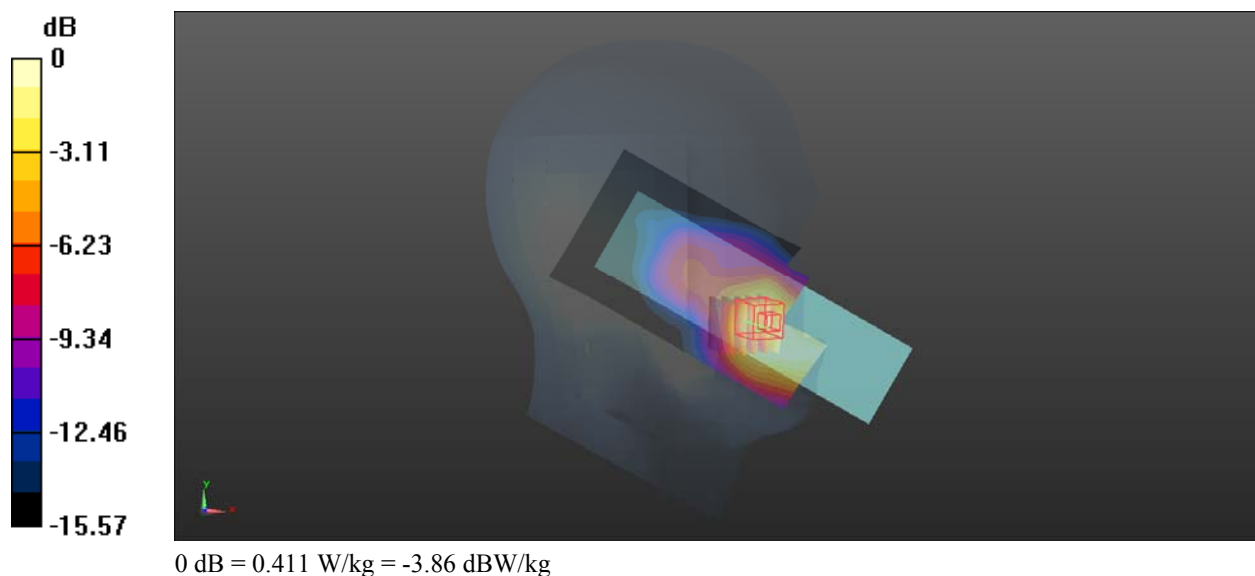
Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.625$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1732.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.553 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.184 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.576 W/kg
SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.163 W/kg
Maximum value of SAR (measured) = 0.411 W/kg



Test Plot 23#: WCDMA Band_4_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

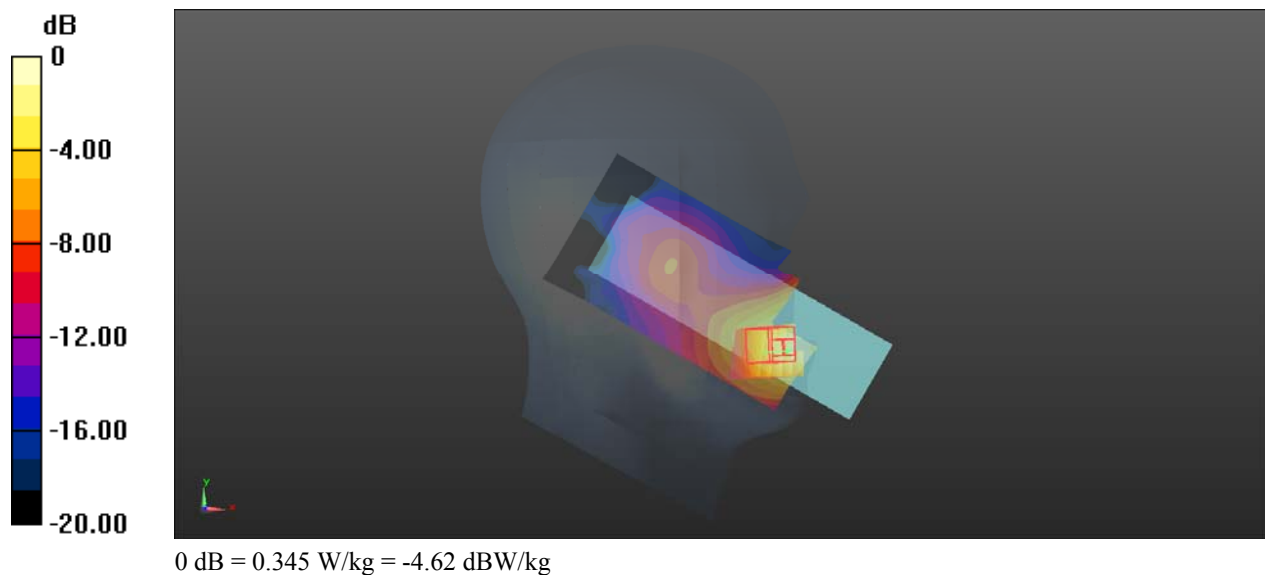
Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.625$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1732.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.301 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.379 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.380 W/kg
SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.147 W/kg
Maximum value of SAR (measured) = 0.345 W/kg



Test Plot 24#: WCDMA Band_4_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

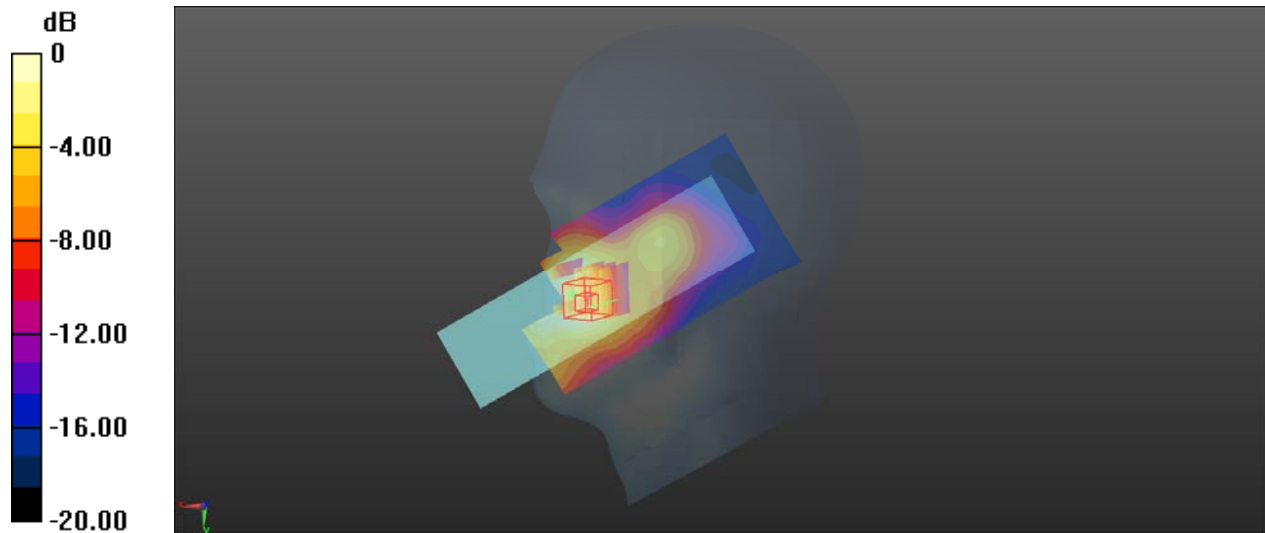
Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.625$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1732.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.478 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.482 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.546 W/kg
SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.304 W/kg



Test Plot 25#:WCDMA Band_4_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

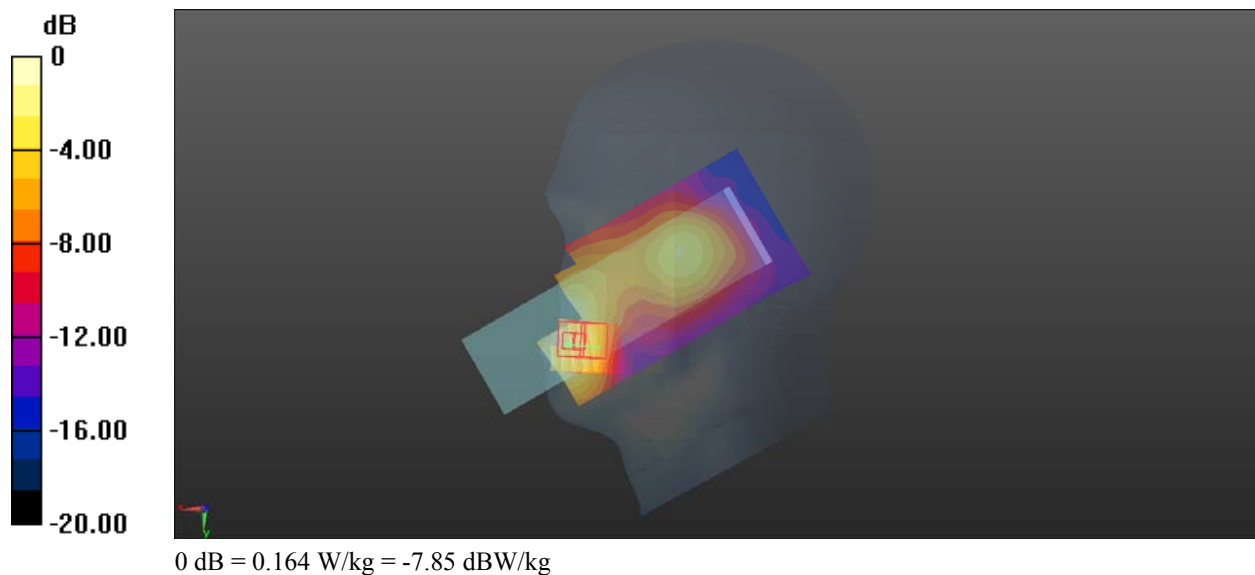
Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.625$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1732.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.177 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.963 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.178 W/kg
SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.164 W/kg



Test Plot 26#: WCDMA Band_4_Low_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

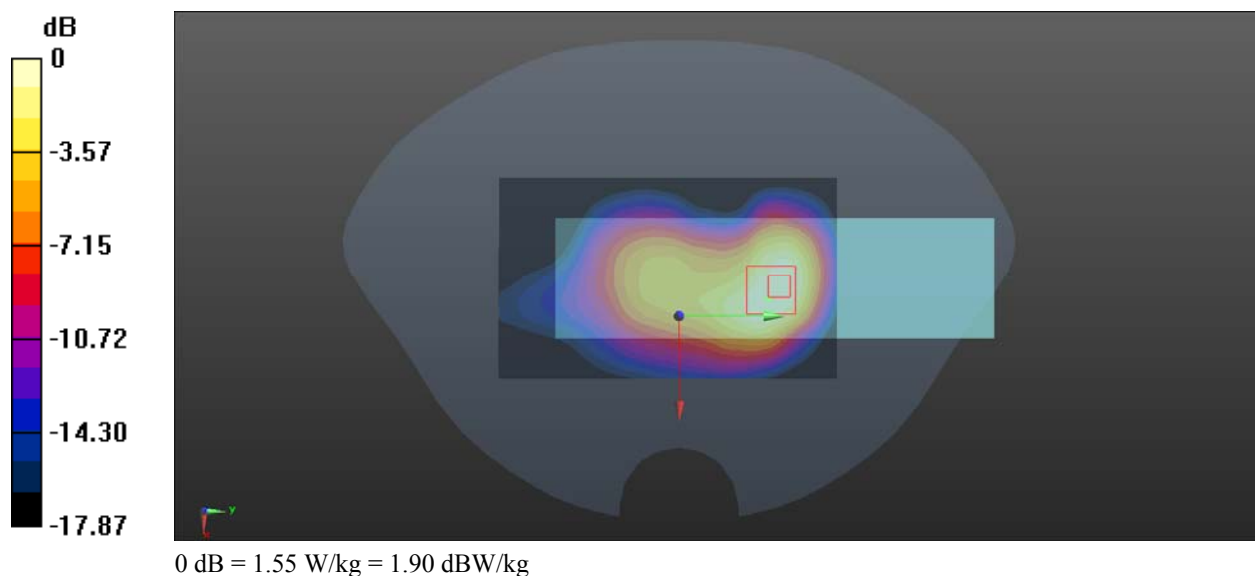
Communication System: WCDMA; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1712.4$ MHz; $\sigma = 1.293$ S/m; $\epsilon_r = 41.948$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1712.4 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.75 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.43 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.577 W/kg
Maximum value of SAR (measured) = 1.55 W/kg



Test Plot 27#: WCDMA Band_4_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

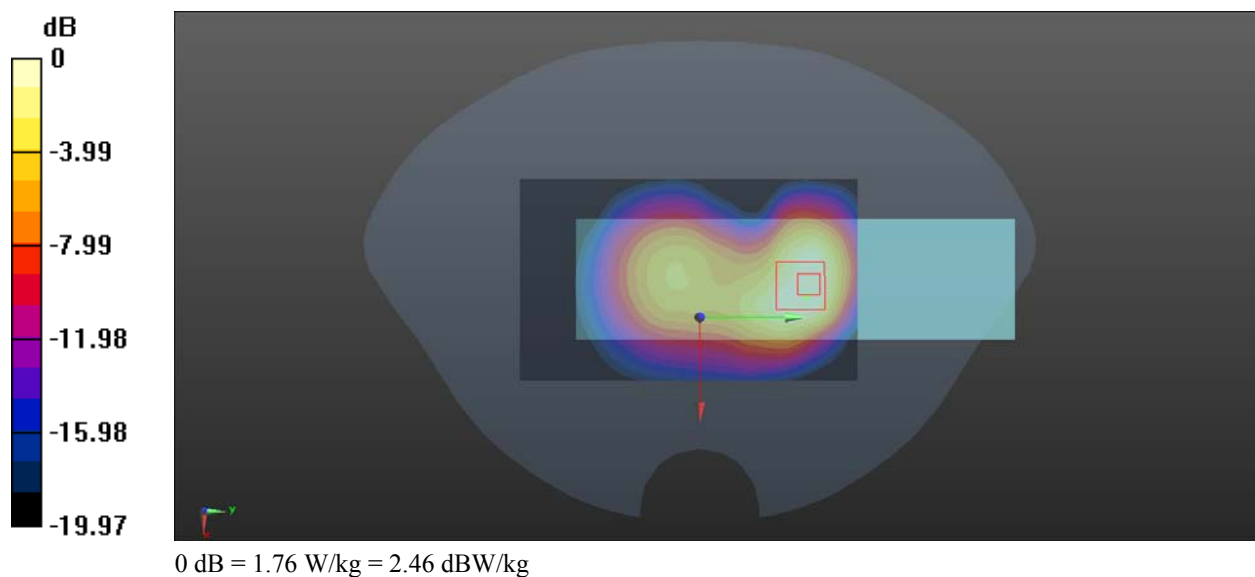
Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 41.625$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1732.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.99 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.77 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.20 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.639 W/kg
Maximum value of SAR (measured) = 1.76 W/kg



Test Plot 28#: WCDMA Band_4_High_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

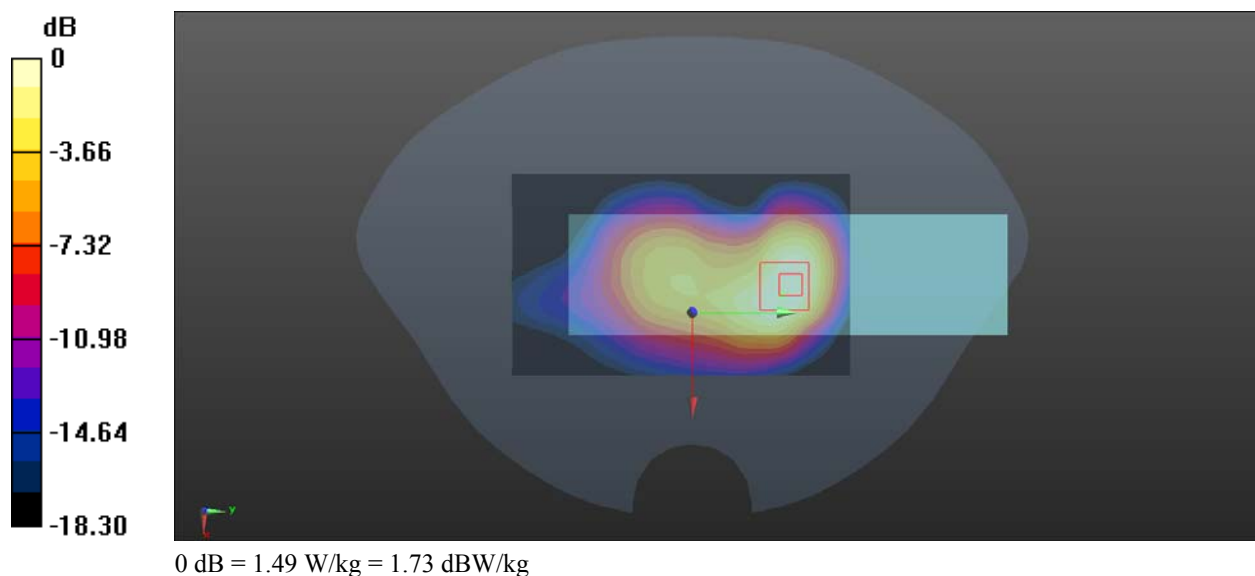
Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 40.842$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1752.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.73 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.25 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.565 W/kg
Maximum value of SAR (measured) = 1.49 W/kg



Test Plot 29#:WCDMA Band_5_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System:WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.709 W/kg

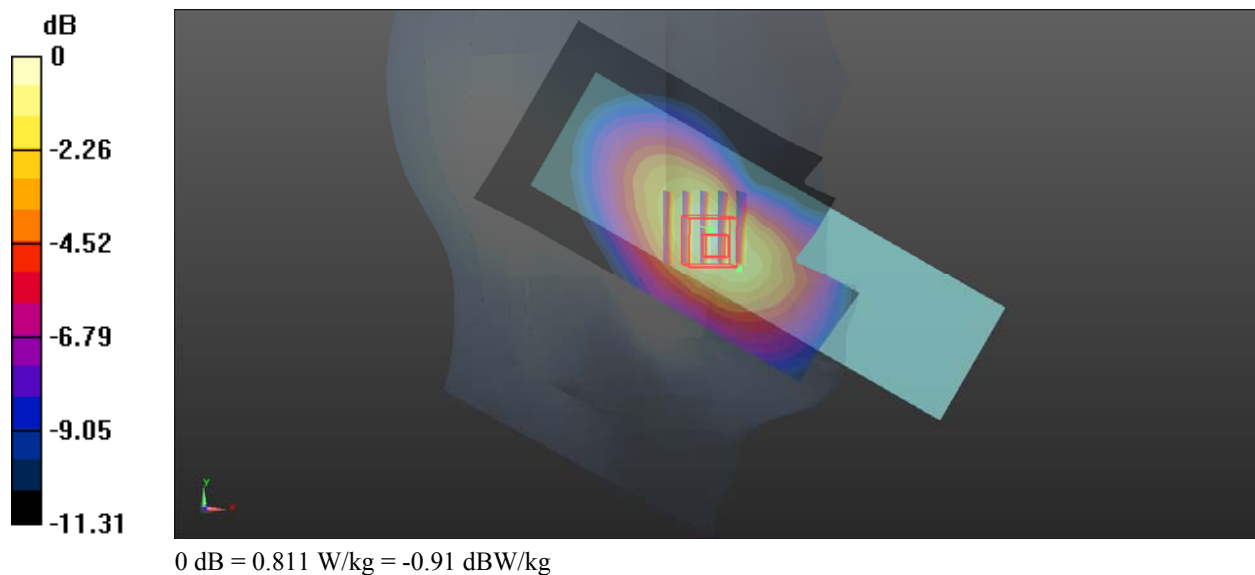
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.764 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.916 W/kg

SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.445 W/kg

Maximum value of SAR (measured) = 0.811 W/kg



Test Plot 30#:WCDMA Band_5_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

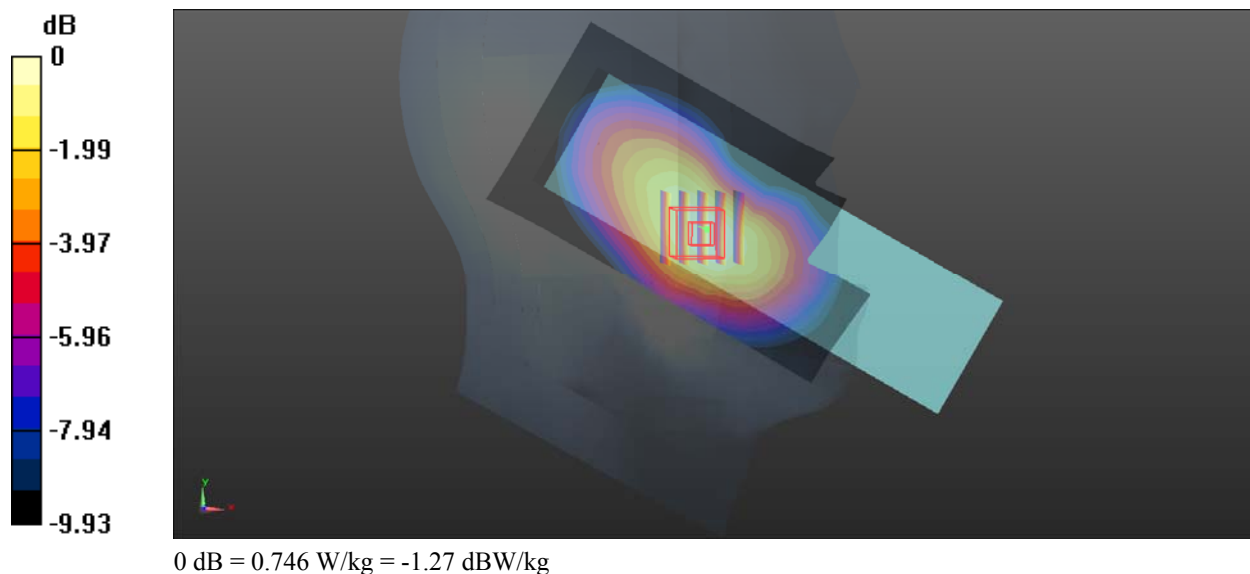
Communication System:WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.731 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 14.97 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.828 W/kg
SAR(1 g) = 0.613 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 0.746 W/kg



Test Plot 31#:WCDMA_Band_5_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

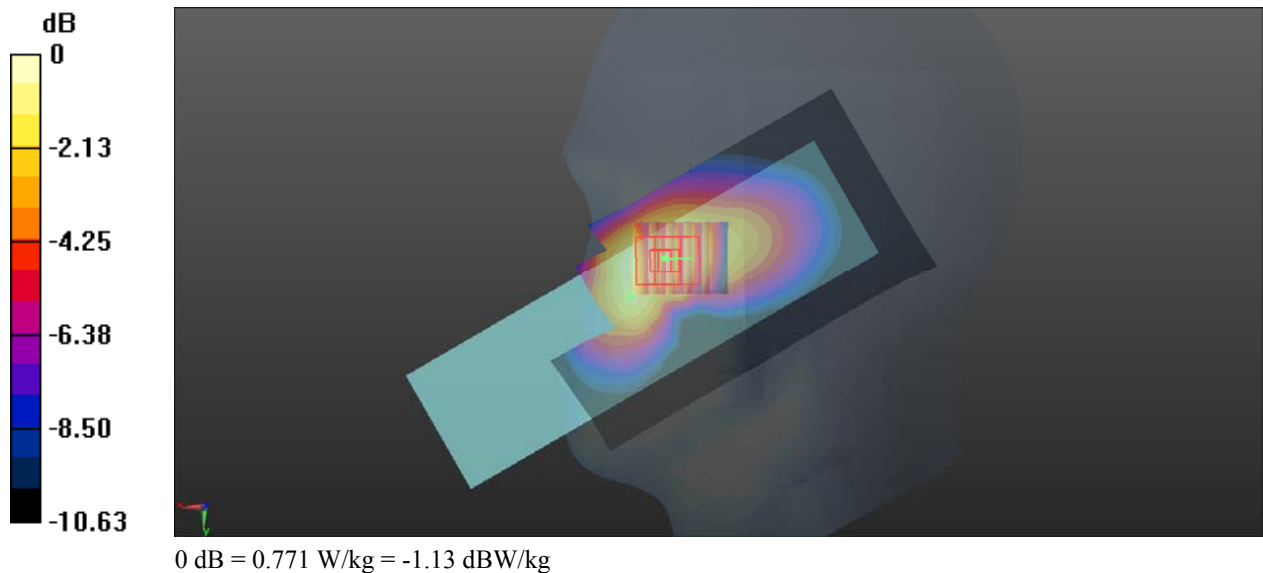
Communication System:WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.836 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 10.40 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.862 W/kg
SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.412 W/kg
Maximum value of SAR (measured) = 0.771 W/kg



Test Plot 32#:WCDMA _Band _5_Mid_ Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

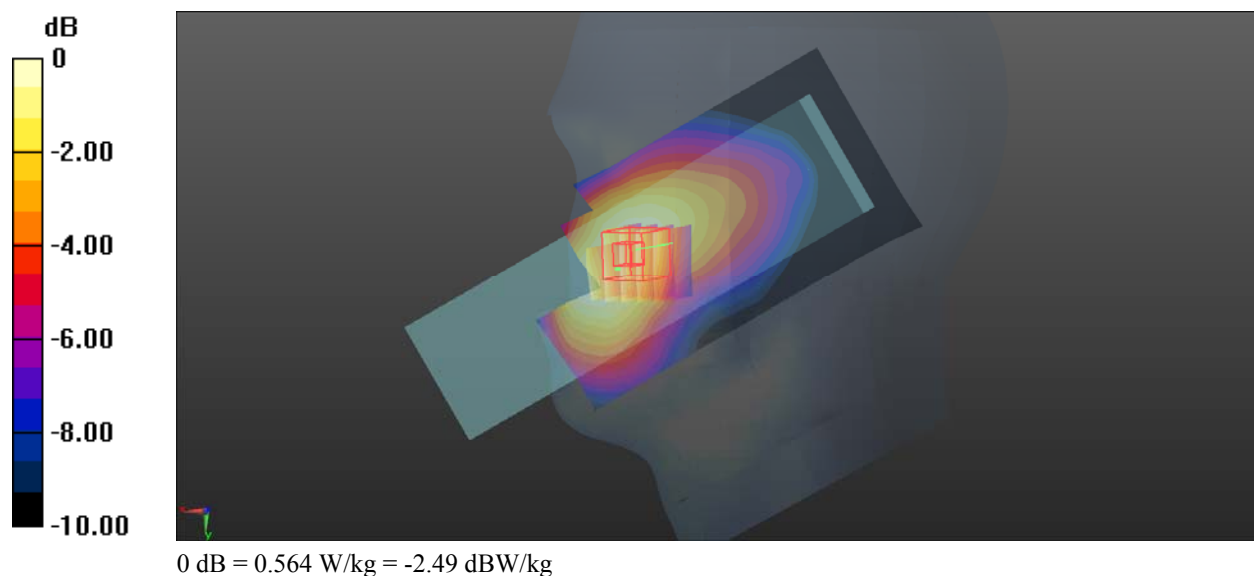
Communication System:WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.590 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 8.452 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.620 W/kg
SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.359 W/kg
Maximum value of SAR (measured) = 0.564 W/kg



Test Plot 33#:WCDMA_Band_5_Low_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System:WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.638$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 826.4 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.54 W/kg

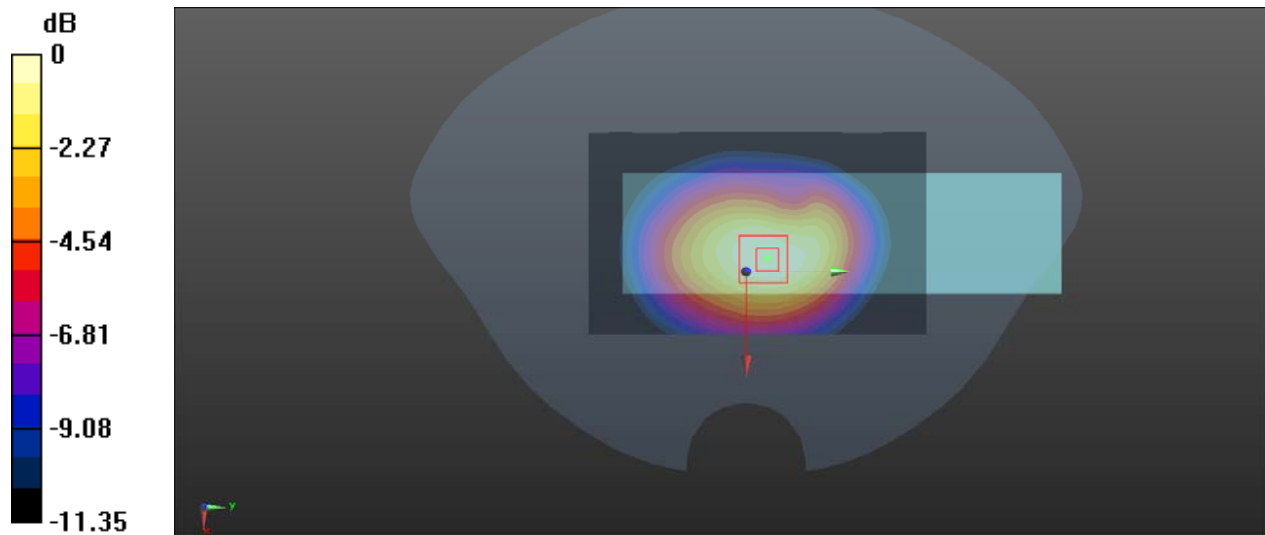
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.10 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.775 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

Test Plot 34#:WCDMA_Band_5_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

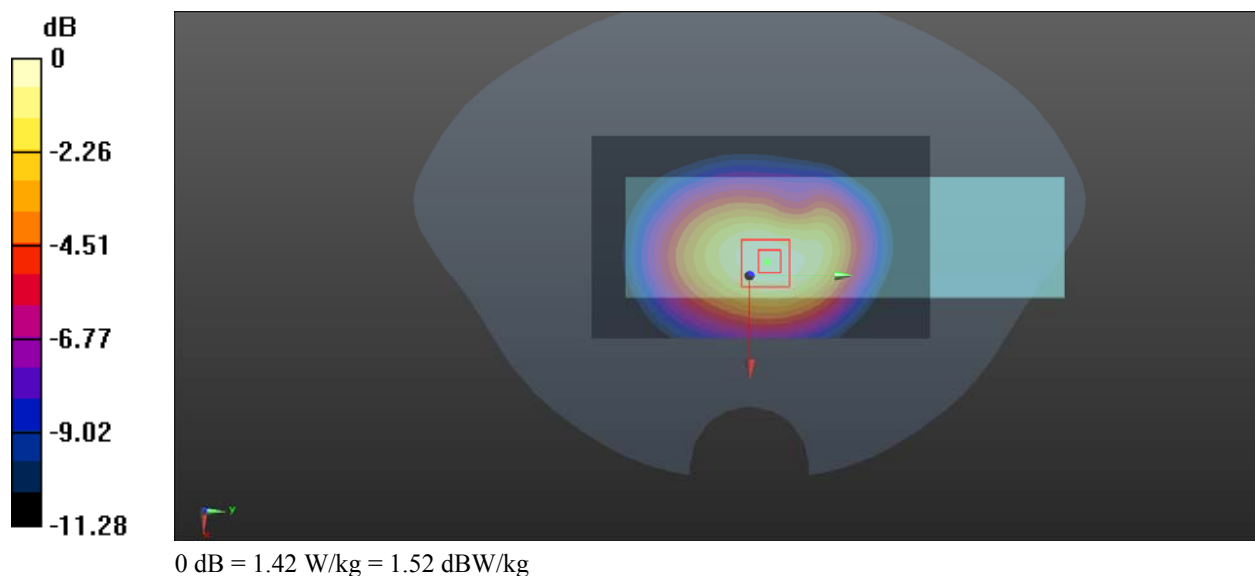
Communication System:WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.934$ S/m; $\epsilon_r = 41.262$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.42 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 31.81 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.722 W/kg
Maximum value of SAR (measured) = 1.42 W/kg



Test Plot 35#:WCDMA_Band_5_High_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System:WCDMA; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.949$ S/m; $\epsilon_r = 40.945$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 846.6 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.40 W/kg

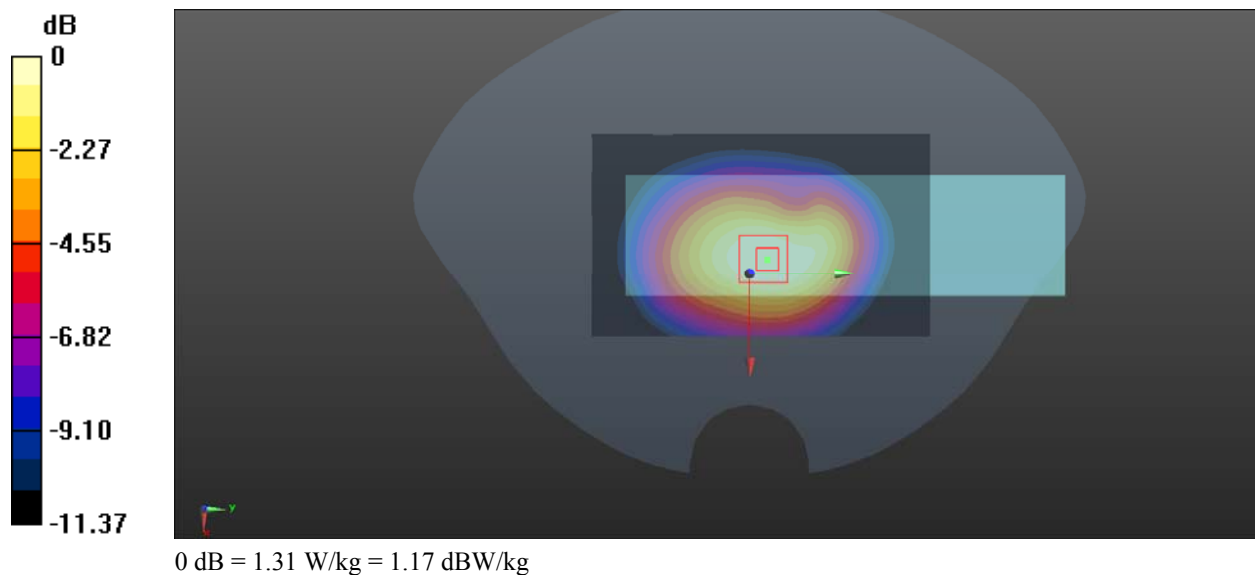
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.73 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.677 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



Test Plot 36#: LTE Band_2_1RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

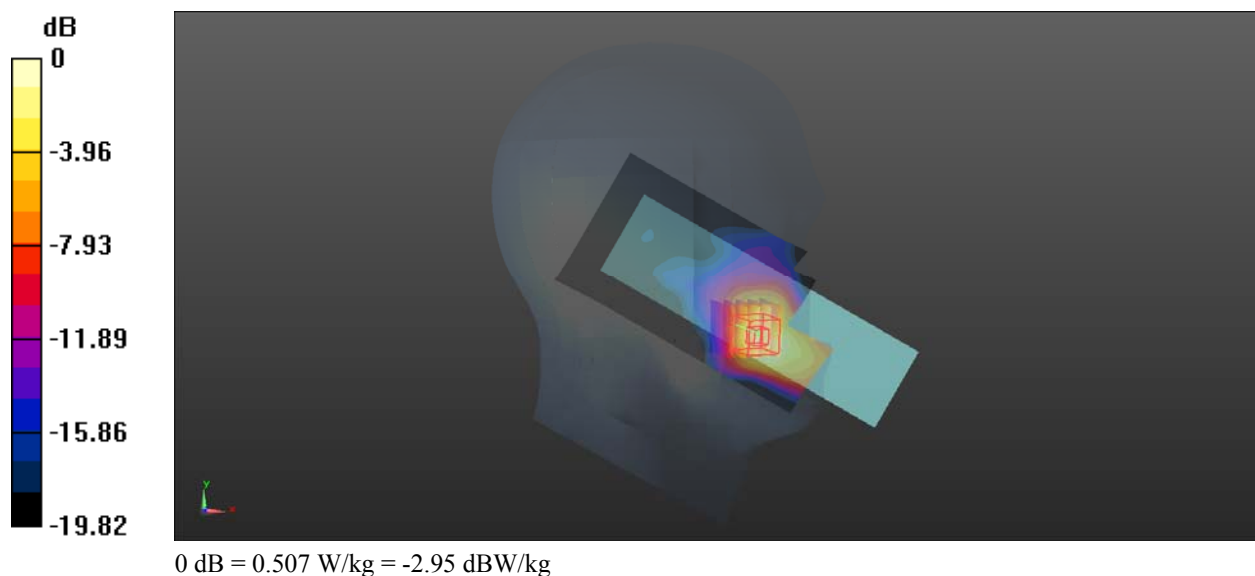
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.473 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.051 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.616 W/kg
SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.187 W/kg
Maximum value of SAR (measured) = 0.507 W/kg



Test Plot 37#: LTE Band _2_ 50%RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

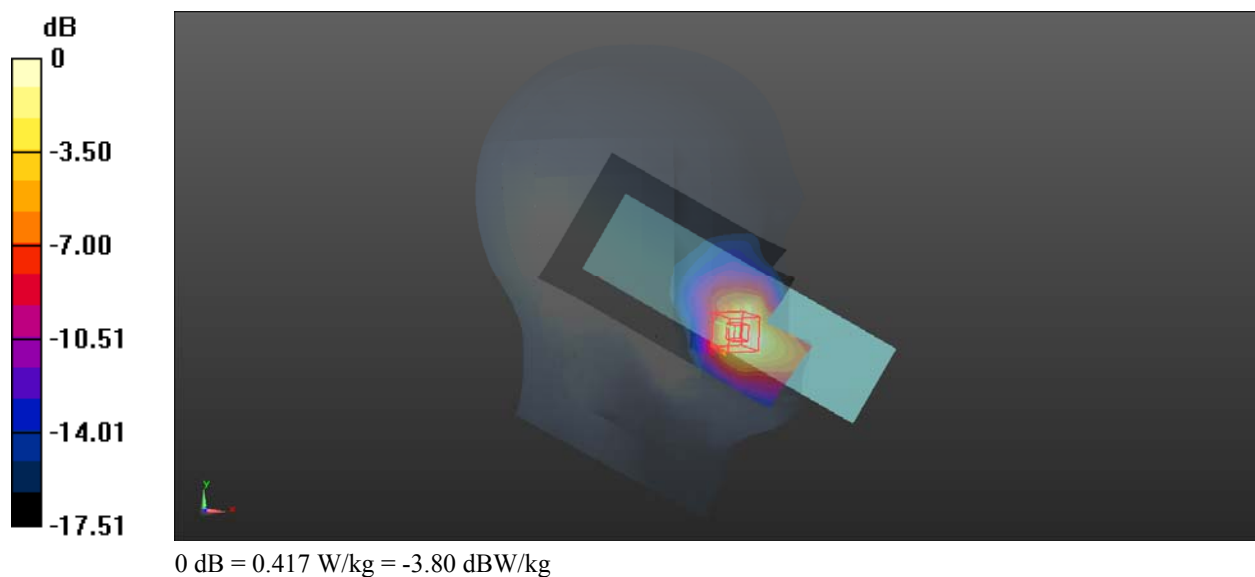
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.396 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.199 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.505 W/kg
SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.152 W/kg
Maximum value of SAR (measured) = 0.417 W/kg



Test Plot 38#: LTE Band _2_ 1RB _Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

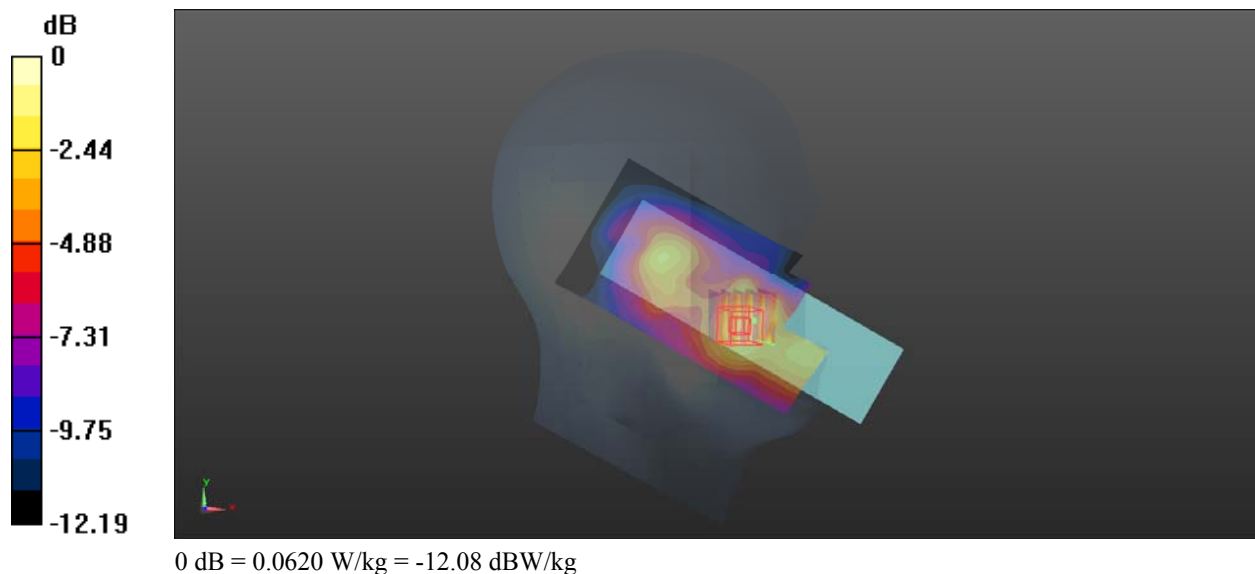
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0521 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.573 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.0900 W/kg
SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.022 W/kg
Maximum value of SAR (measured) = 0.0620 W/kg



Test Plot 39#: LTE _Band _2_50%RB _Mid _Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

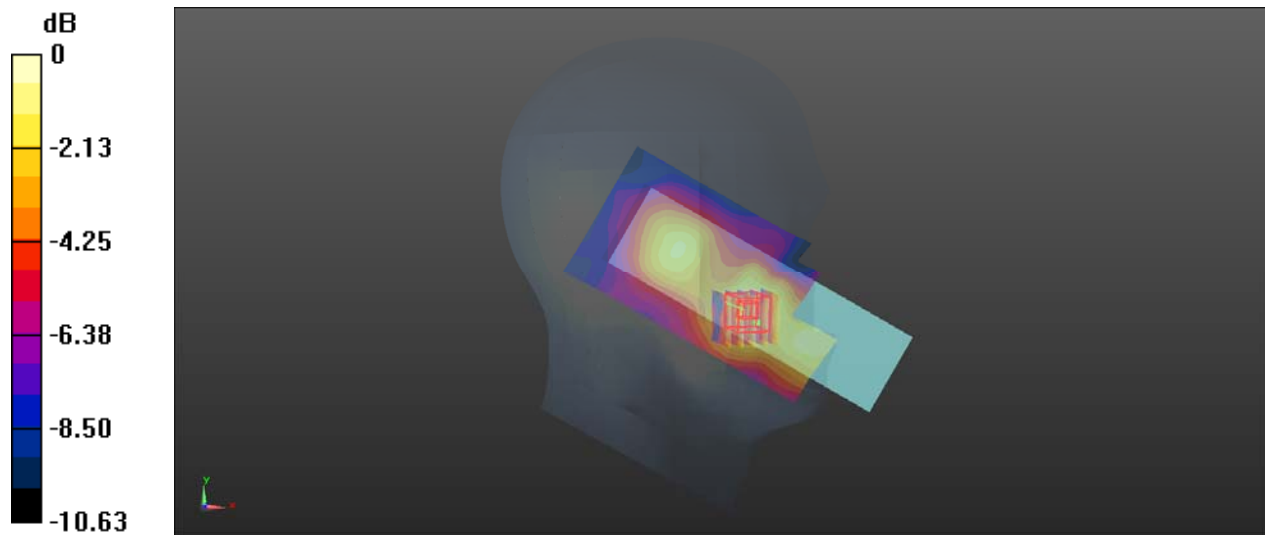
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0385 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.680 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.0450 W/kg
SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.020 W/kg
Maximum value of SAR (measured) = 0.0382 W/kg



0 dB = 0.0382 W/kg = -14.18 dBW/kg

Test Plot 40#: LTE_Band_2_1RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

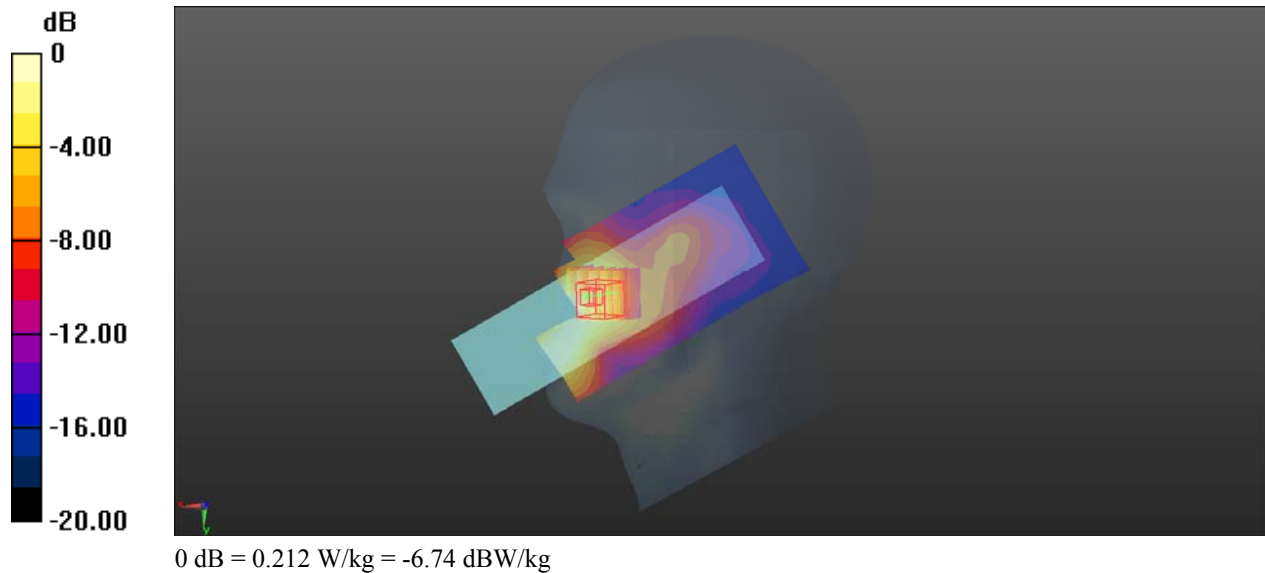
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.226 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.846 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.241 W/kg
SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.100 W/kg
Maximum value of SAR (measured) = 0.212 W/kg



Test Plot 41#: LTE Band_2_50%RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

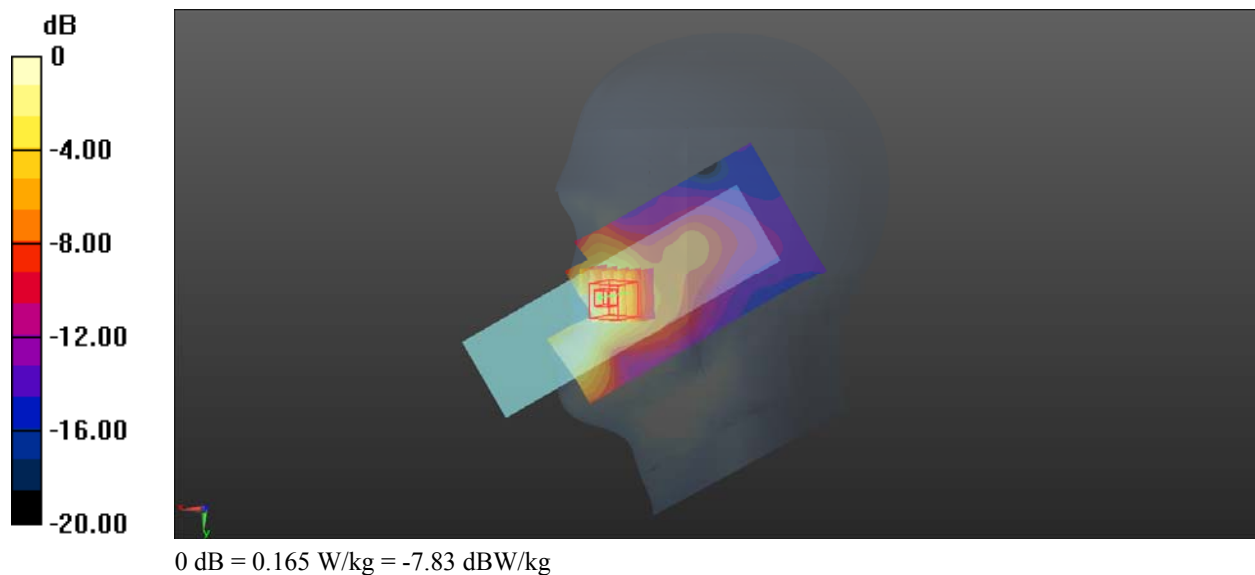
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.180 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.939 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.189 W/kg
SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.079 W/kg
Maximum value of SAR (measured) = 0.165 W/kg



Test Plot 42#: LTE_Band_2_1RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

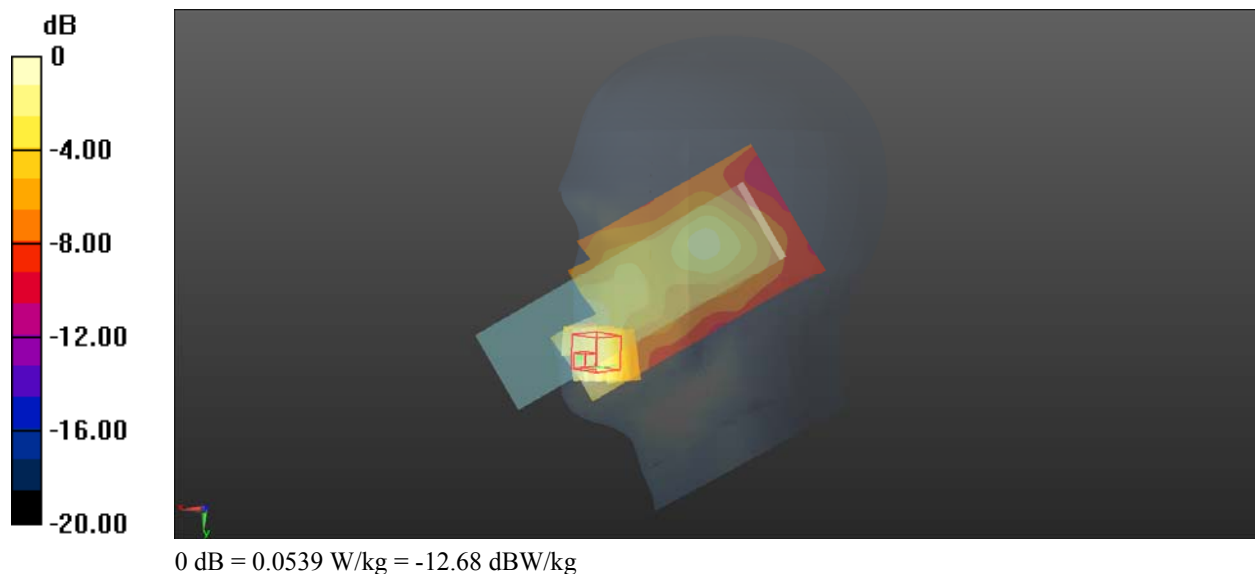
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0606 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 1.982 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.0620 W/kg
SAR(1 g) = 0.043 W/kg; SAR(10 g) = 0.032 W/kg
Maximum value of SAR (measured) = 0.0539 W/kg



Test Plot 43#: LTE Band_2_50%RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

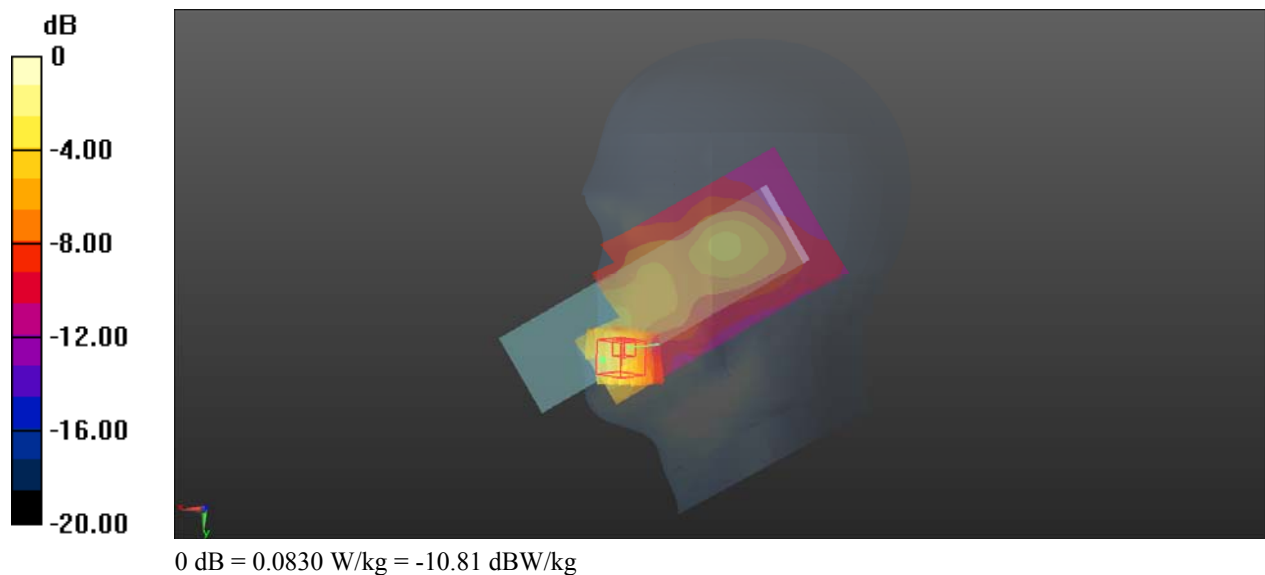
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0519 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.300 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.0940 W/kg
SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.028 W/kg
Maximum value of SAR (measured) = 0.0830 W/kg



Test Plot 44#: LTE Band_2_1RB_Low_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

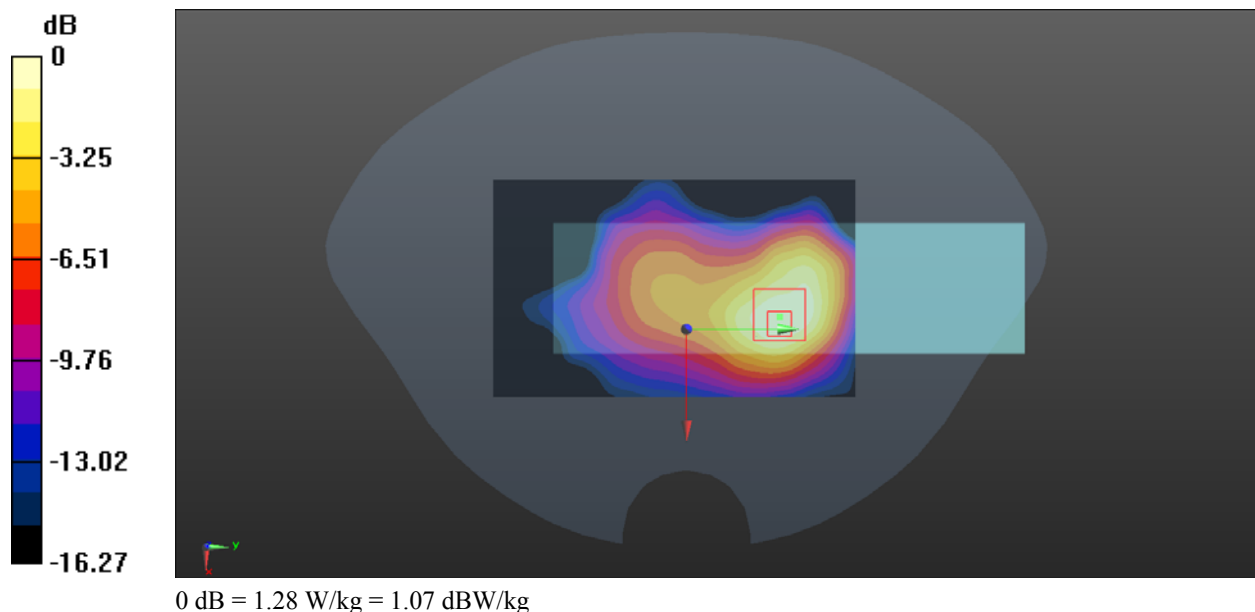
Communication System: Generic FDD-LTE; Frequency: 1860 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1860$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 40.284$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1860 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.38 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 16.59 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.862 W/kg; SAR(10 g) = 0.494 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



Test Plot 45#: LTE Band_2_1RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

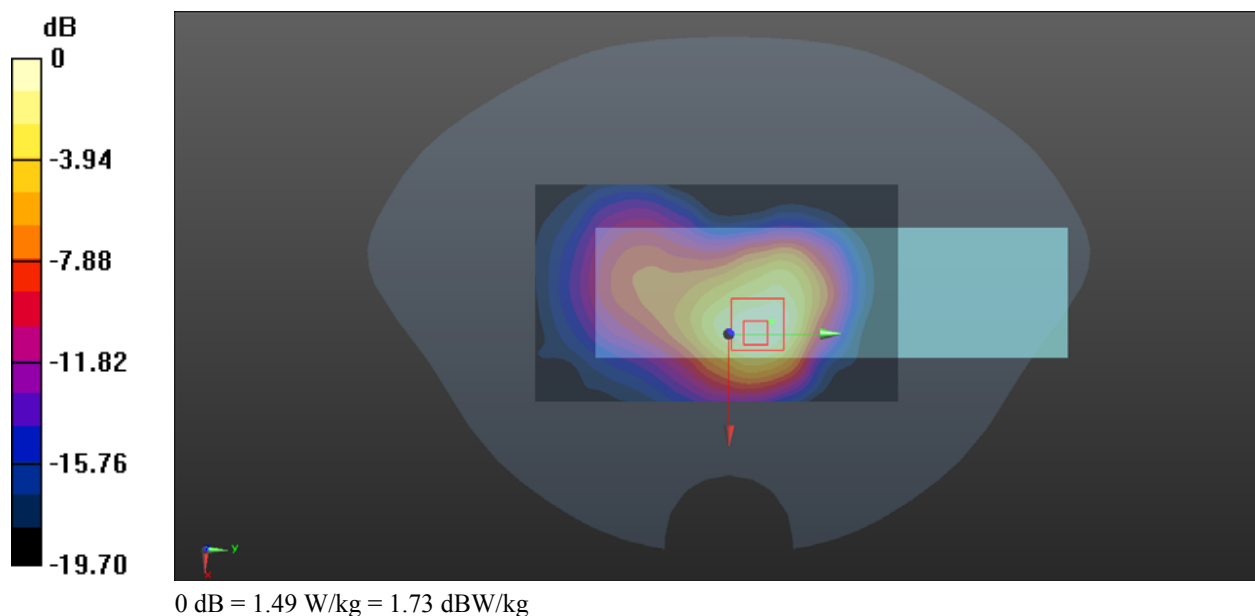
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.46 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.21 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.488 W/kg
Maximum value of SAR (measured) = 1.49 W/kg



Test Plot 46#: LTE Band_2_1RB_High_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

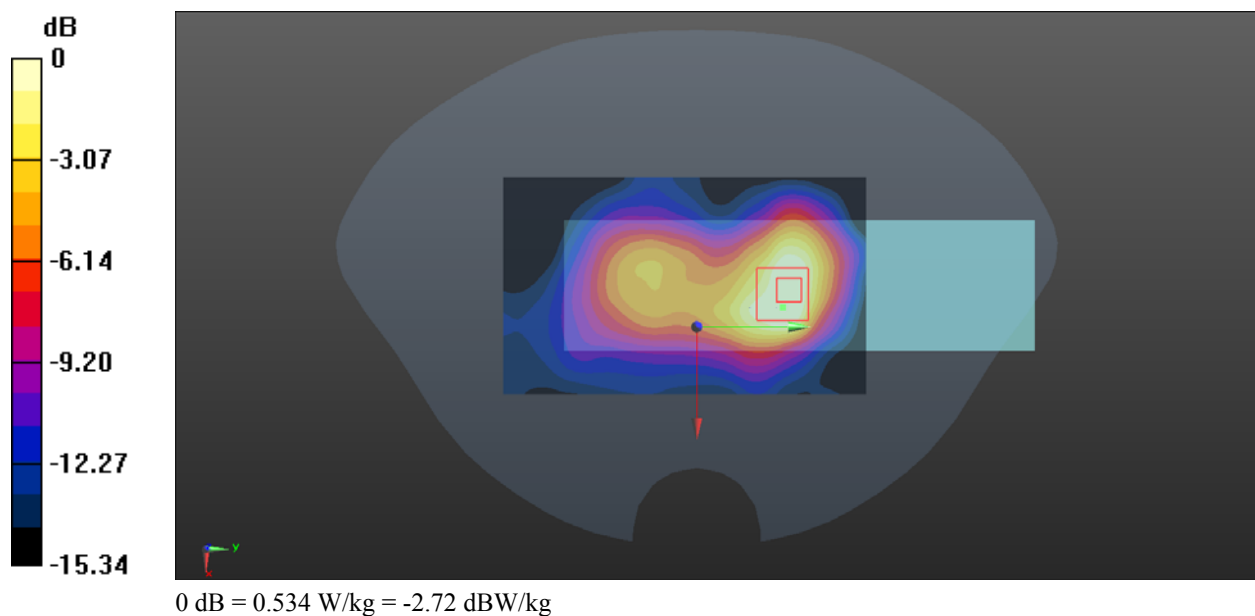
Communication System: Generic FDD-LTE; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 39.173$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1900 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.756 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 9.901 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.715 W/kg
SAR(1 g) = 0.827 W/kg; SAR(10 g) = 0.221 W/kg
Maximum value of SAR (measured) = 0.534 W/kg



Test Plot 47#: LTE Band_2_50%RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

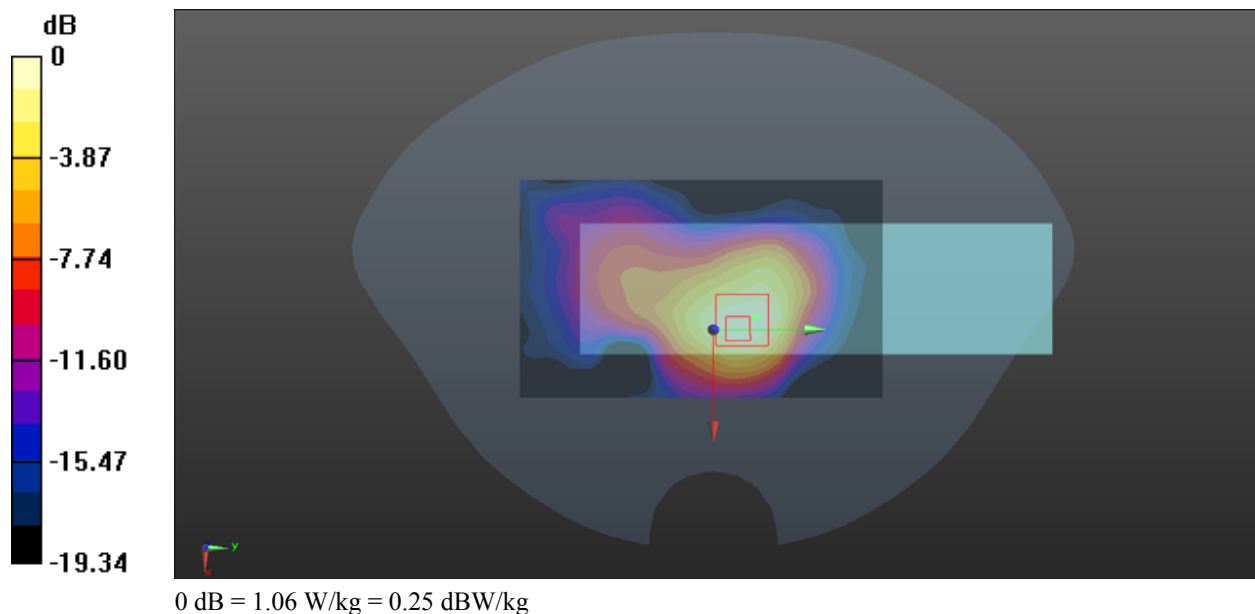
Communication System: Generic FDD-LTE; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1880 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.03 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 16.09 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.643 W/kg; SAR(10 g) = 0.344 W/kg
Maximum value of SAR (measured) = 1.06 W/kg



Test Plot 48#: LTE Band _5_ 1RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

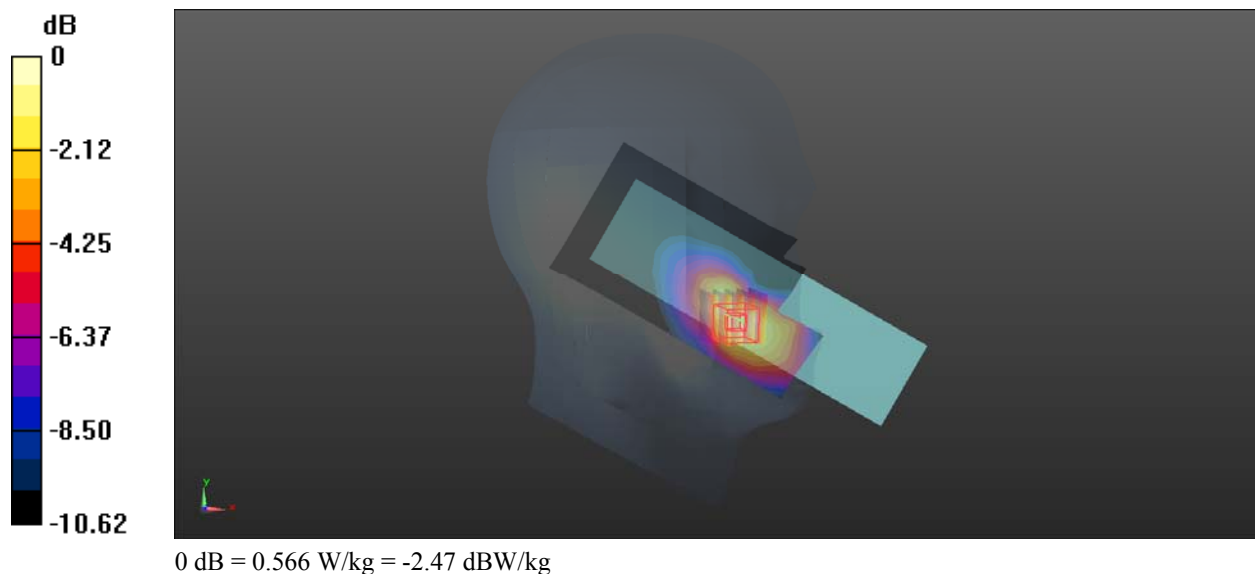
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.622 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 5.642 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.682 W/kg
SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.271 W/kg
Maximum value of SAR (measured) = 0.566 W/kg



Test Plot 49#: LTE Band _5_ 50%RB _Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

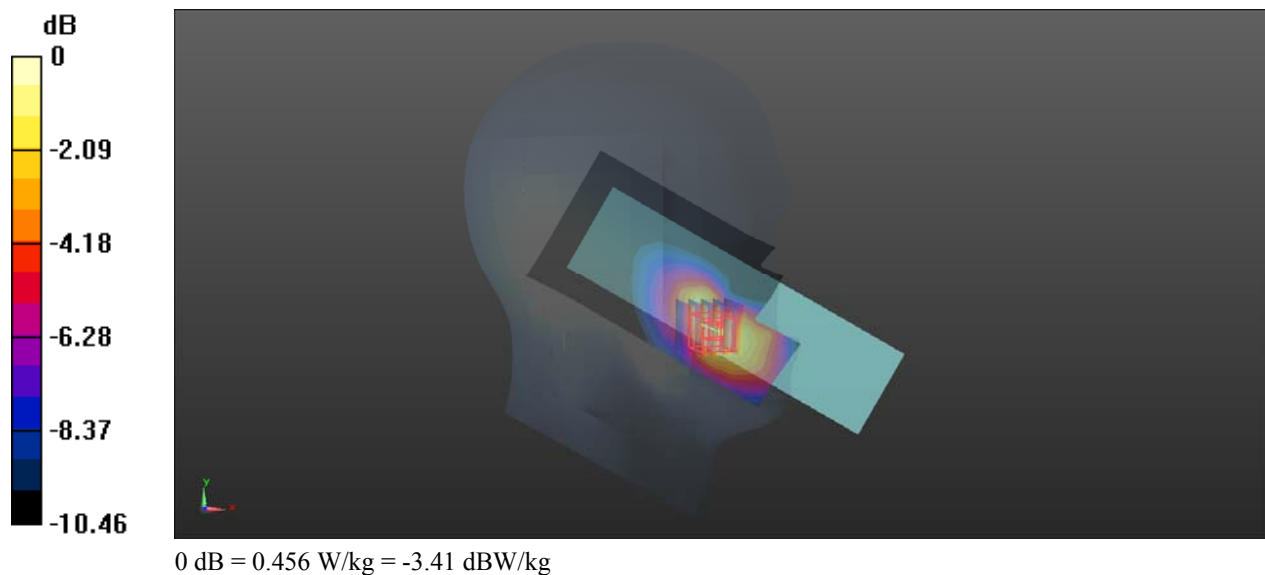
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.486 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.537 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.547 W/kg
SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.216 W/kg
Maximum value of SAR (measured) = 0.456 W/kg



Test Plot 50#: LTE Band_5_1RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

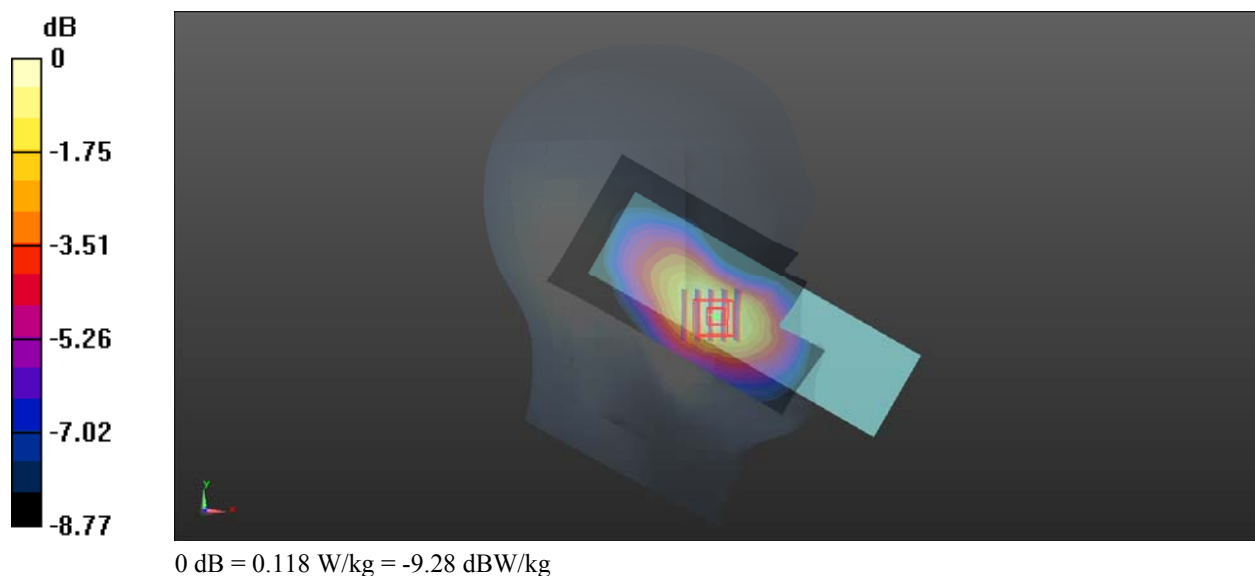
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.116 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.590 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.130 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.118 W/kg



Test Plot 51#: LTE Band _5 _50%RB_Mid_ Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

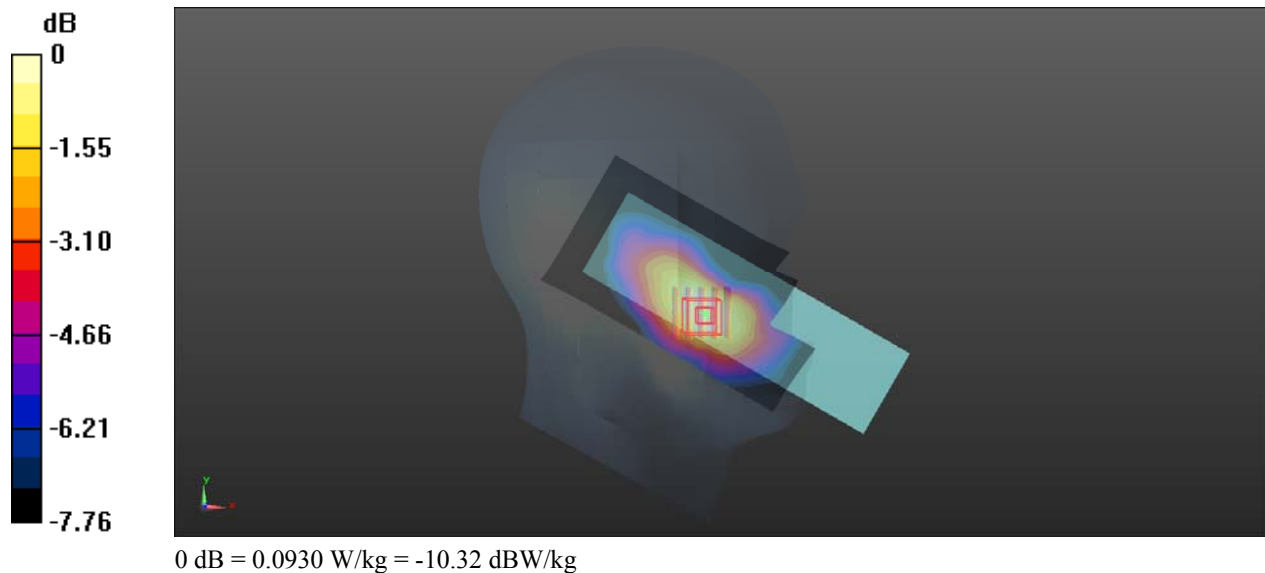
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.100 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 5.283 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.101 W/kg
SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.053 W/kg
Maximum value of SAR (measured) = 0.0930 W/kg



Test Plot 52#: LTE_Band_5_1RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

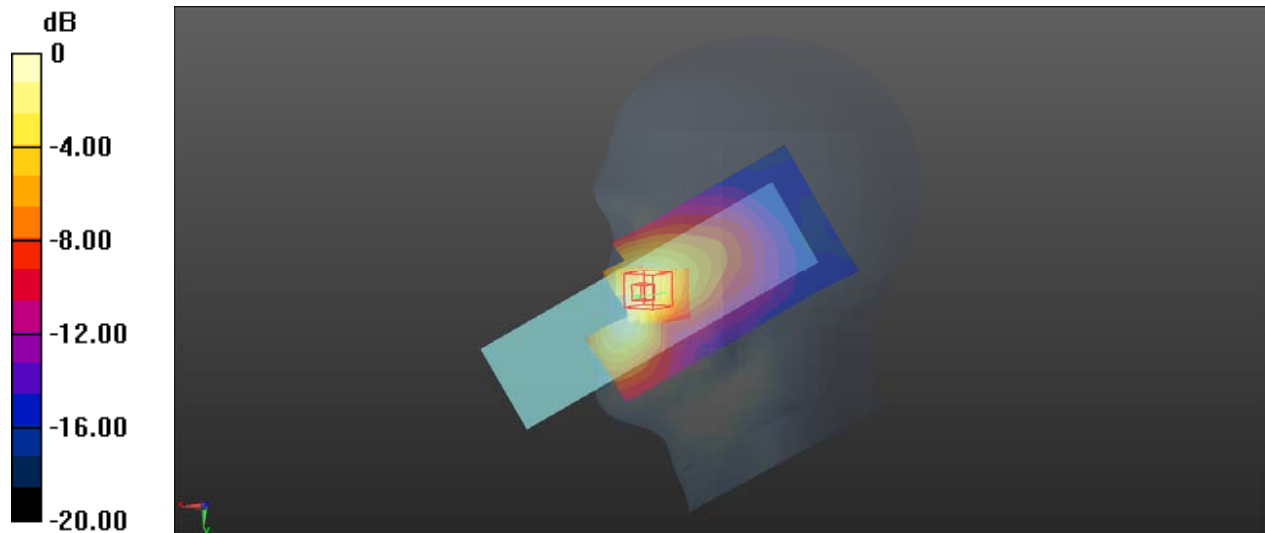
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.216 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.850 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.236 W/kg
SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.109 W/kg
Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

Test Plot 53#: LTE Band _5 _50%RB_Mid_ Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

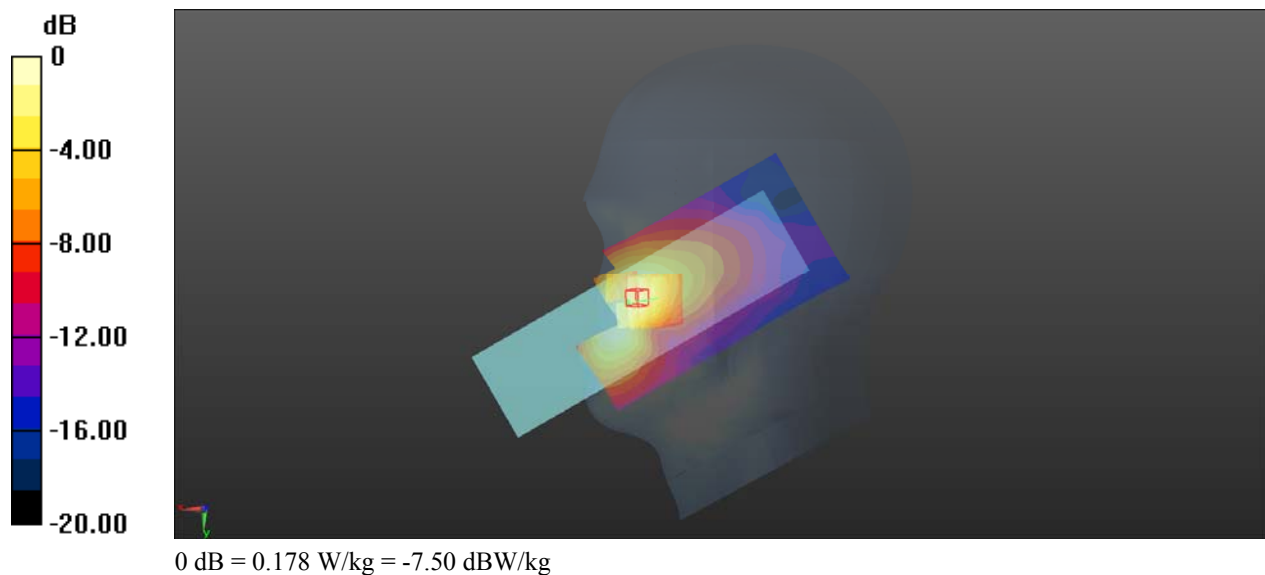
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.192 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.051 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.211 W/kg
SAR(1 g) = 0.142 W/kg; SAR(10 g) = n.a.
Maximum value of SAR (measured) = 0.178 W/kg



Test Plot 54#: LTE_Band_5_1RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

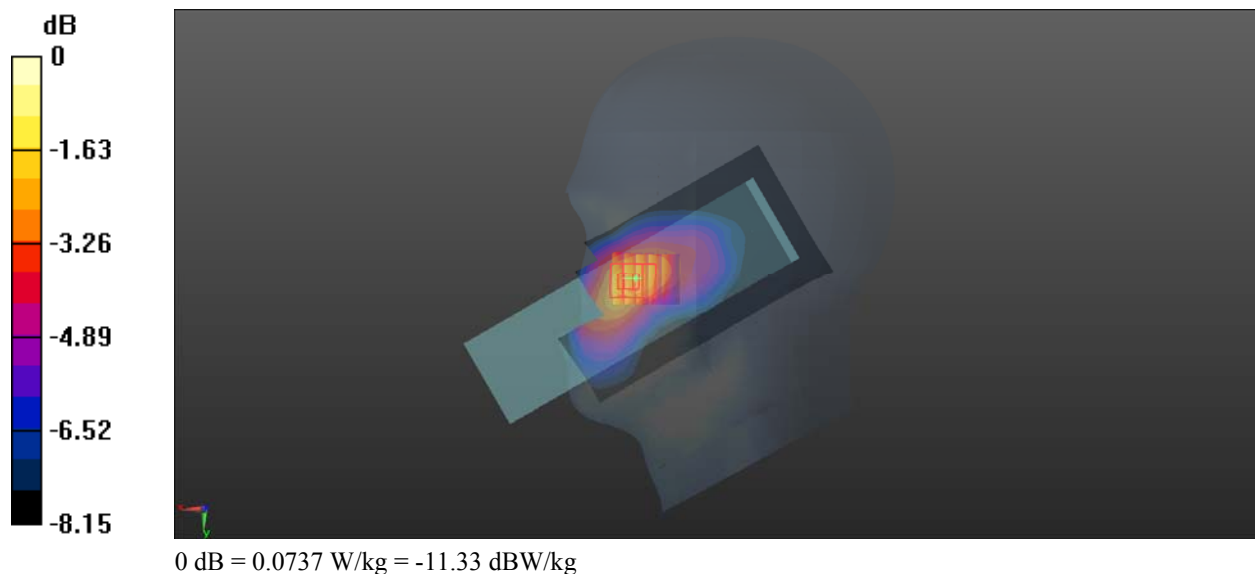
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0446 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.055 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.0810 W/kg
SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.046 W/kg
Maximum value of SAR (measured) = 0.0737 W/kg



Test Plot 55#: LTE Band_5_50%RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

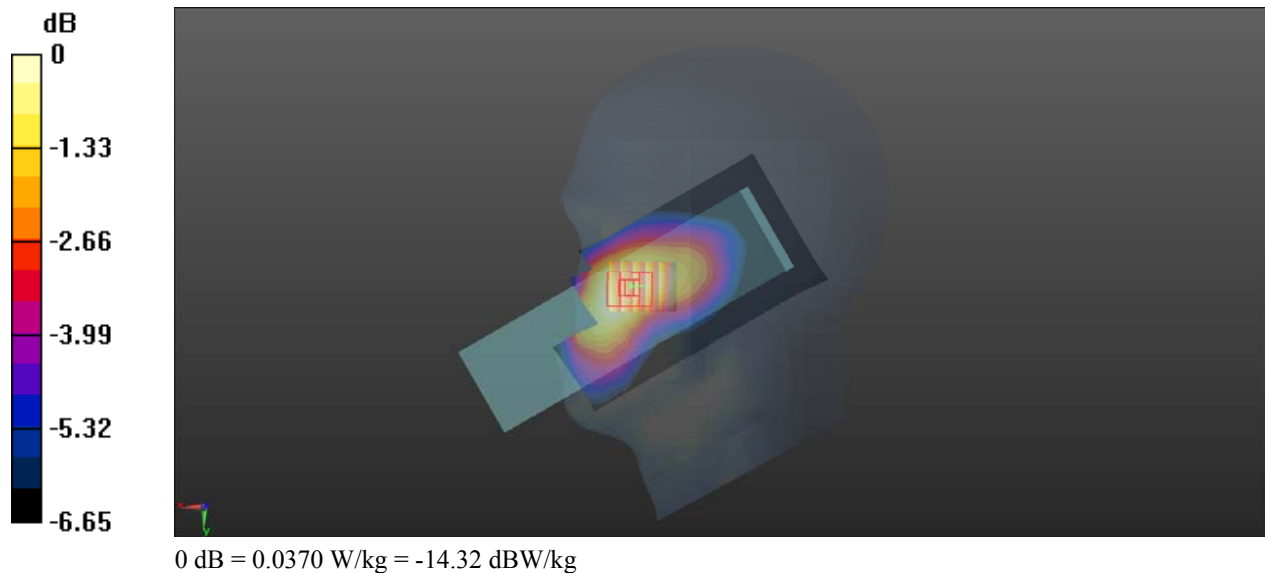
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0377 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.817 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0400 W/kg
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.024 W/kg
Maximum value of SAR (measured) = 0.0370 W/kg



Test Plot 56#: LTE Band _5 _1RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

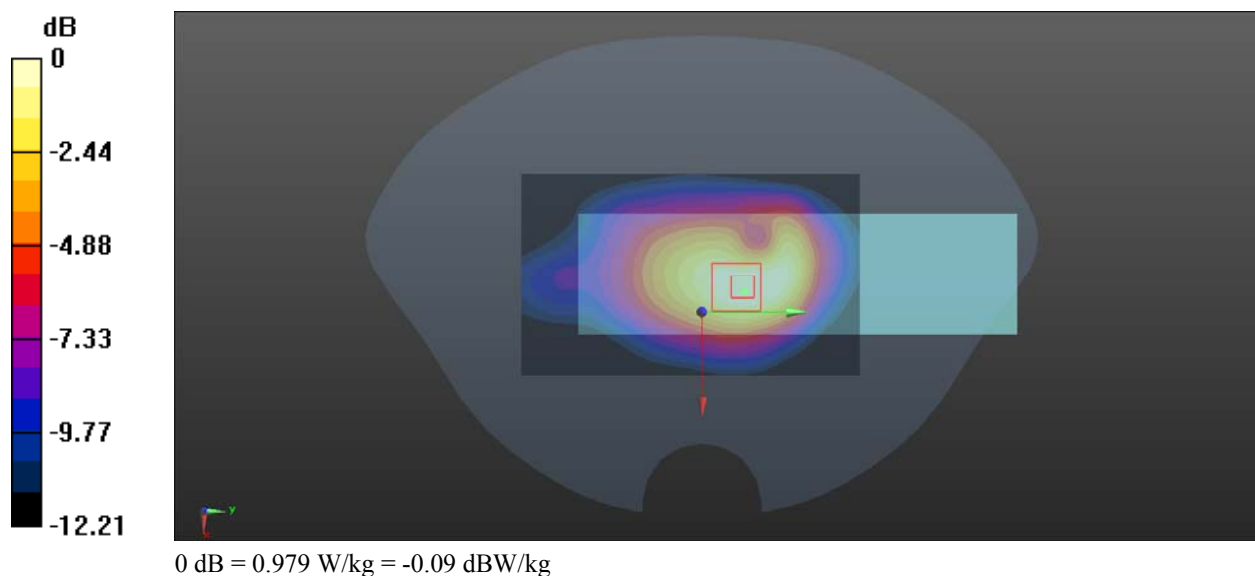
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.02 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 25.06 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.18 W/kg
SAR(1 g) = 0.703 W/kg; SAR(10 g) = 0.442 W/kg
Maximum value of SAR (measured) = 0.979 W/kg



Test Plot 57#: LTE_Band_5_50%RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

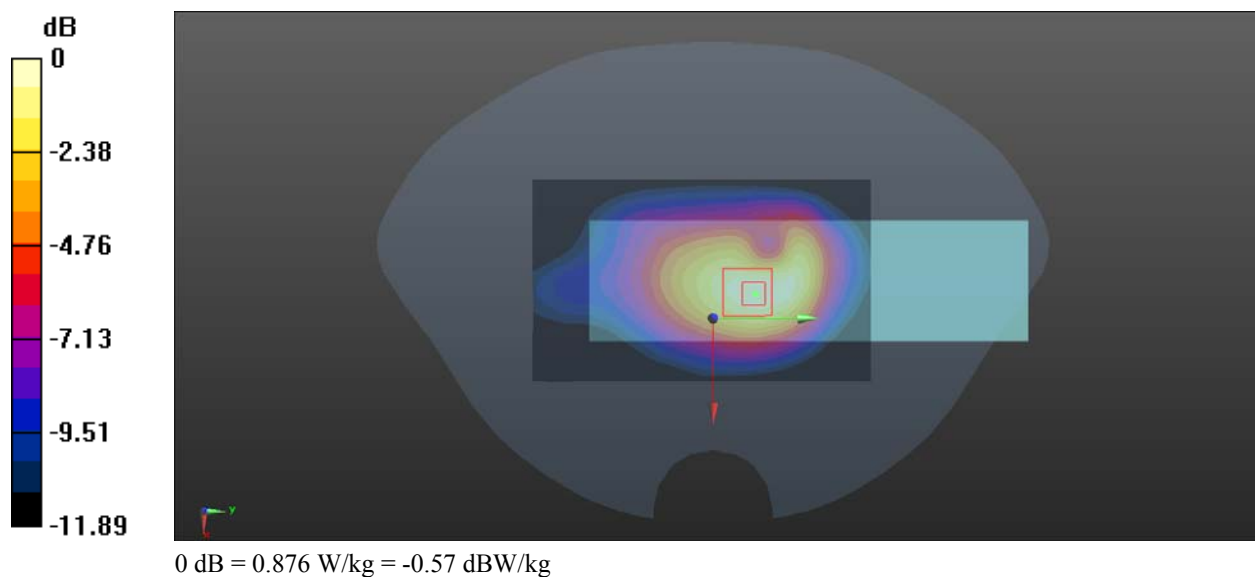
Communication System: Generic FDD-LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.932$ S/m; $\epsilon_r = 41.468$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 836.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.856 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 23.12 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.611 W/kg; SAR(10 g) = 0.381 W/kg
Maximum value of SAR (measured) = 0.876 W/kg



Test Plot 58#: LTE_Band_12_1RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

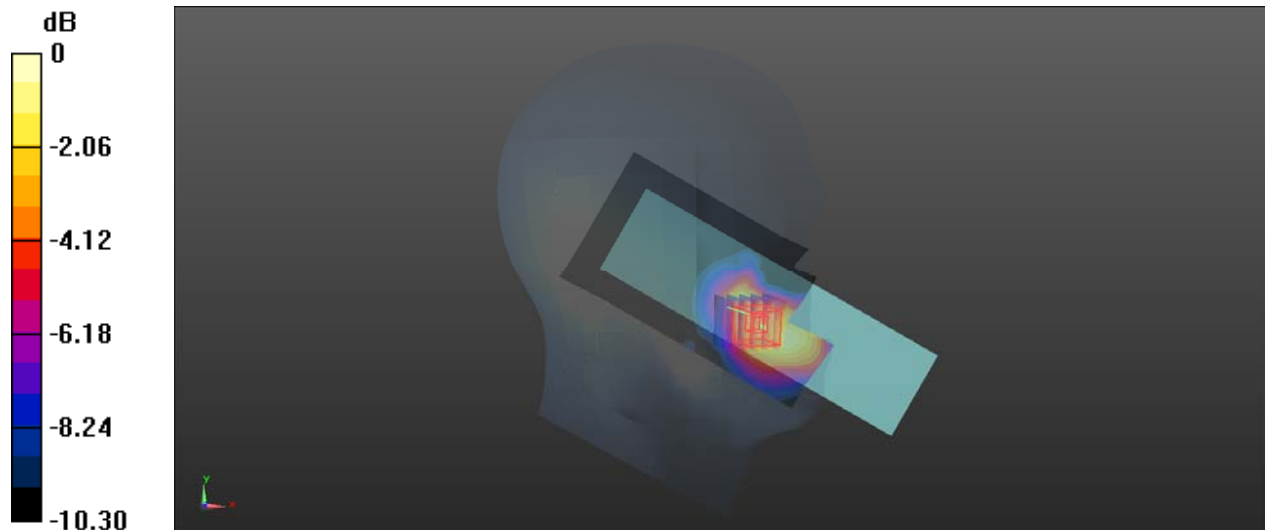
Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0782 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 1.664 V/m; Power Drift = -0.11dB
Peak SAR (extrapolated) = 0.0970 W/kg
SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.0802 W/kg



0 dB = 0.0802 W/kg = -10.96 dBW/kg

Test Plot 59#: LTE Band_12_50%RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0622 W/kg

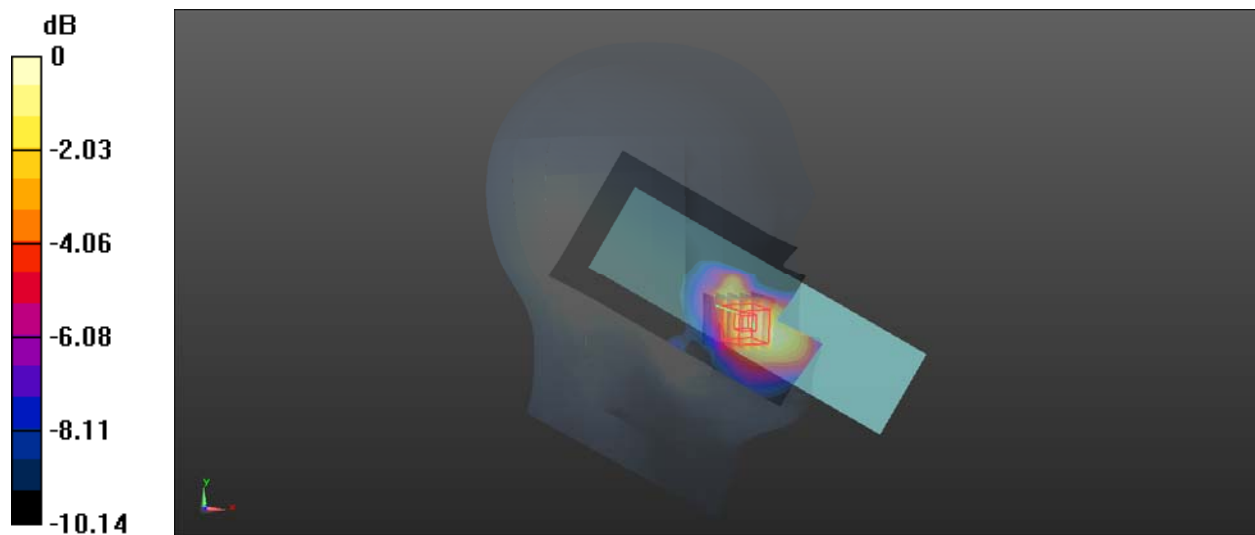
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.687 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0780 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.0640 W/kg



Test Plot 60#: LTE_Band_12_1RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

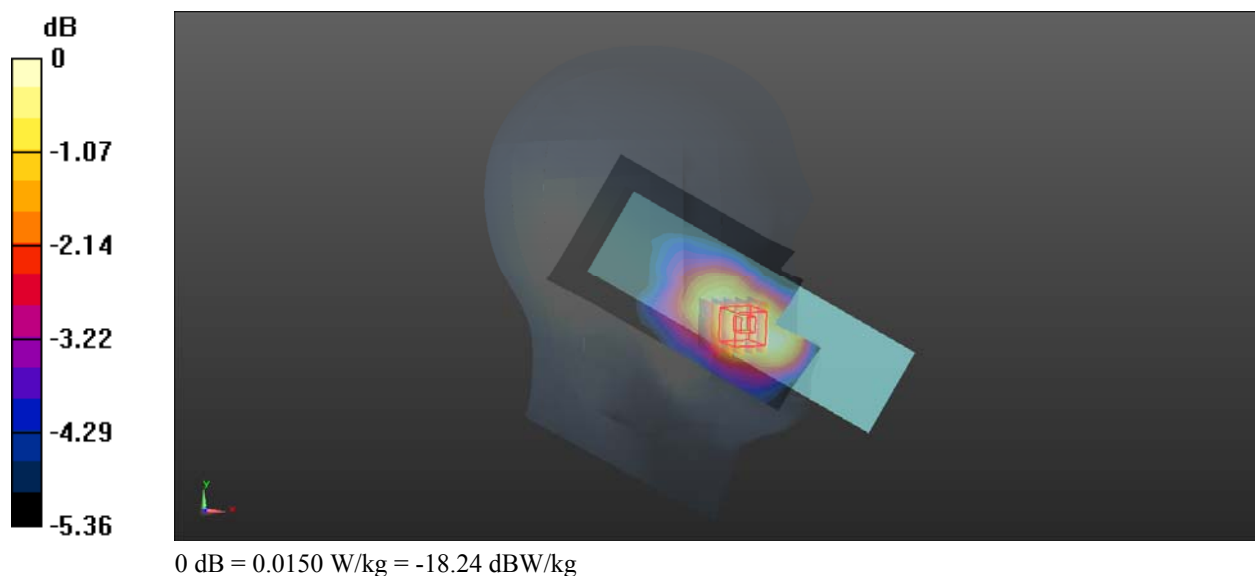
Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0171 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 1.908 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.0190 W/kg
SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.010 W/kg
Maximum value of SAR (measured) = 0.0150 W/kg



Test Plot 61#: LTE Band _12_ 50%RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.00988 W/kg

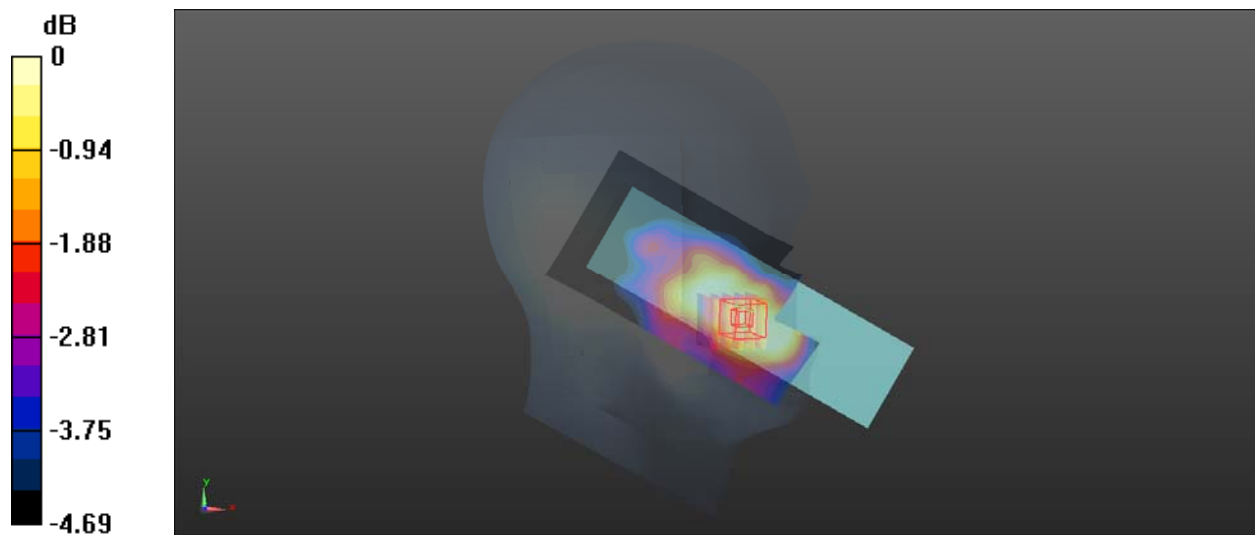
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.761 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.00999 W/kg

SAR(1 g) = 0.00735 W/kg; SAR(10 g) = 0.00603 W/kg

Maximum value of SAR (measured) = 0.00815 W/kg



0 dB = 0.00815 W/kg = -20.89 dBW/kg

Test Plot 62#: LTE_Band_12_1RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

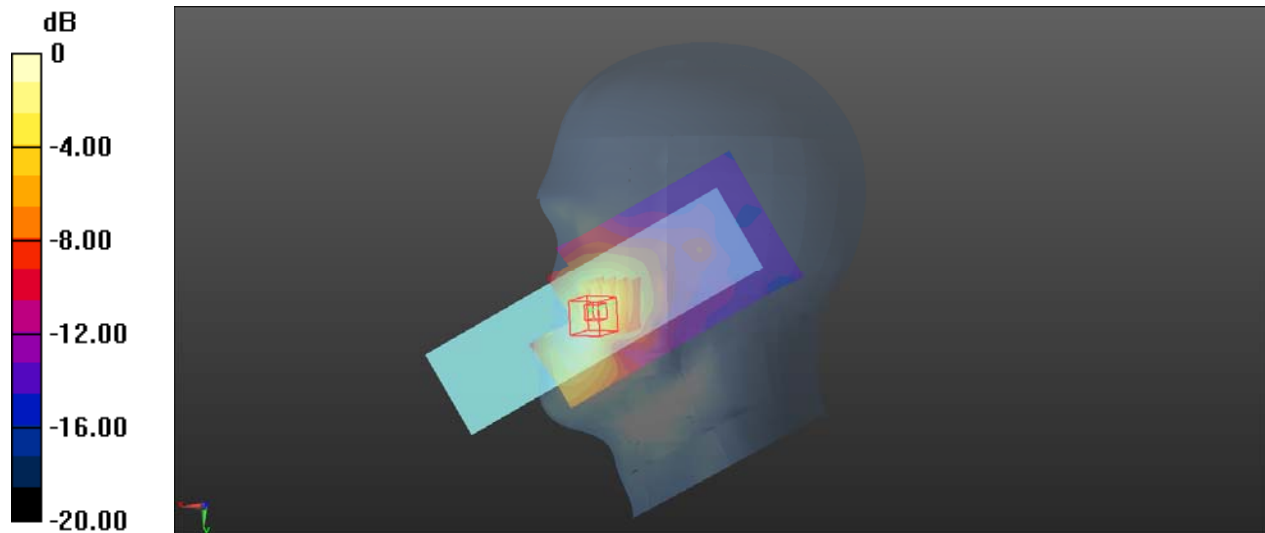
Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0947 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.990 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.0990 W/kg
SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.046 W/kg
Maximum value of SAR (measured) = 0.0852 W/kg



Test Plot 63#: LTE Band_12_50%RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0801 W/kg

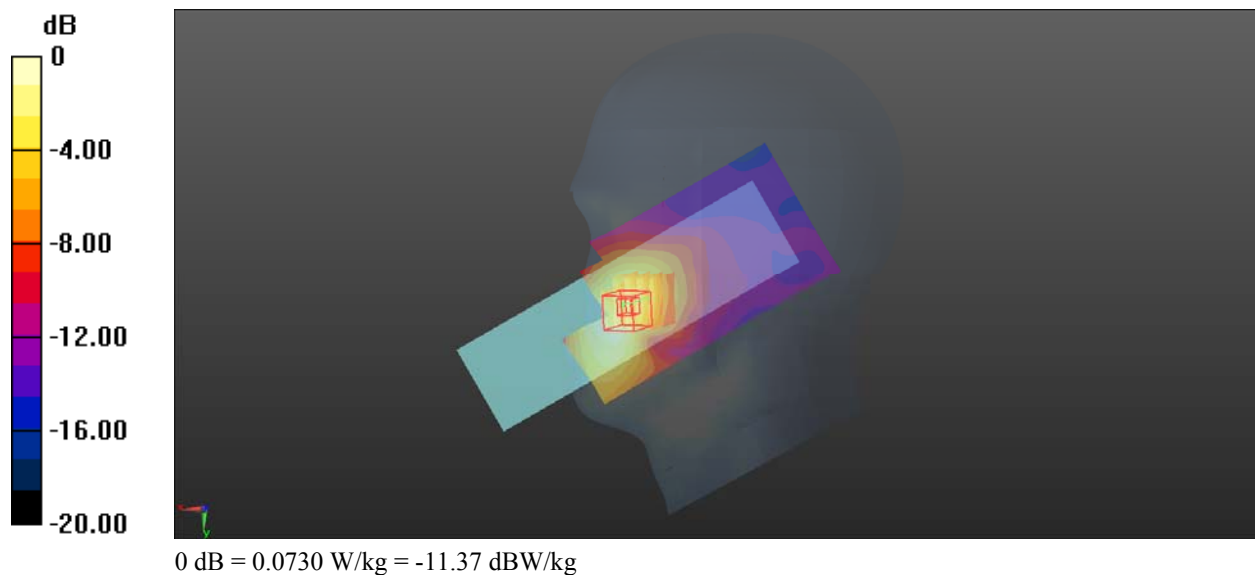
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.439 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0850 W/kg

SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.040 W/kg

Maximum value of SAR (measured) = 0.0730 W/kg



Test Plot 64#: LTE Band _12_ 1RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

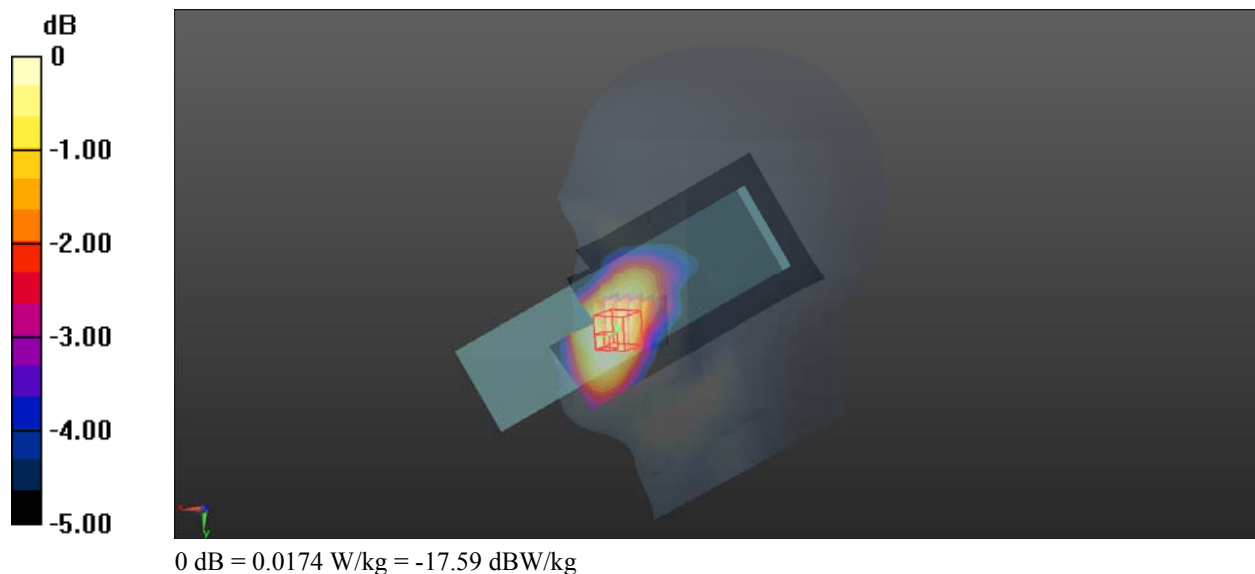
Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0205 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 1.878 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.0290 W/kg
SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.012 W/kg
Maximum value of SAR (measured) = 0.0174 W/kg



Test Plot 65#: LTE Band _12 _50%RB_ Mid _Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0130 W/kg

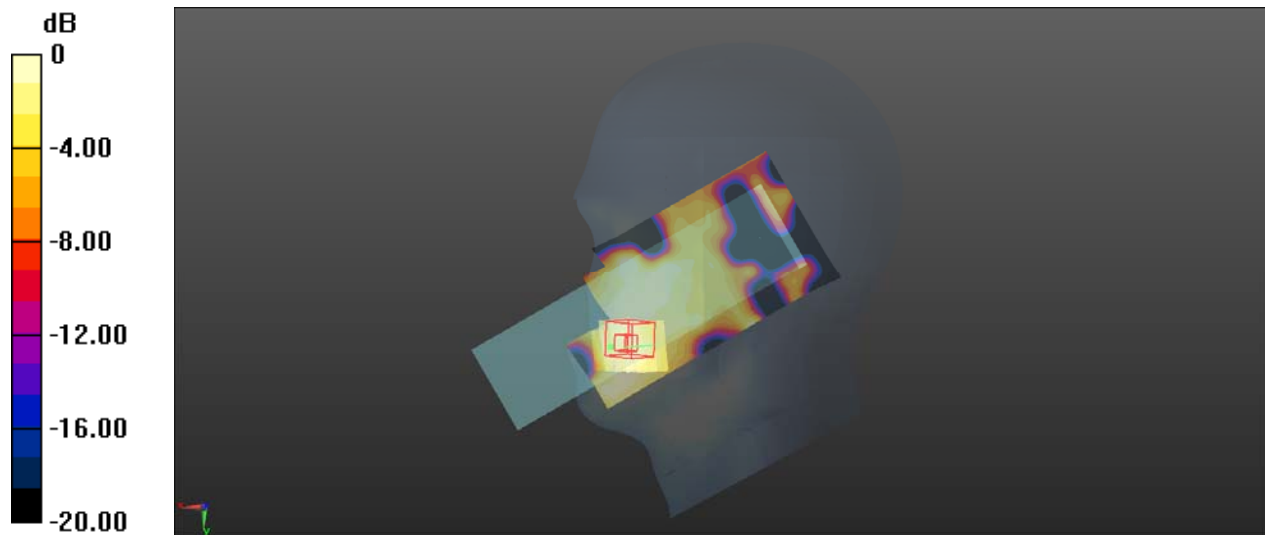
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.933 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00921 W/kg

Maximum value of SAR (measured) = 0.0114 W/kg



0 dB = 0.0114 W/kg = -19.43 dBW/kg

Test Plot 66#: LTE Band_12_1RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

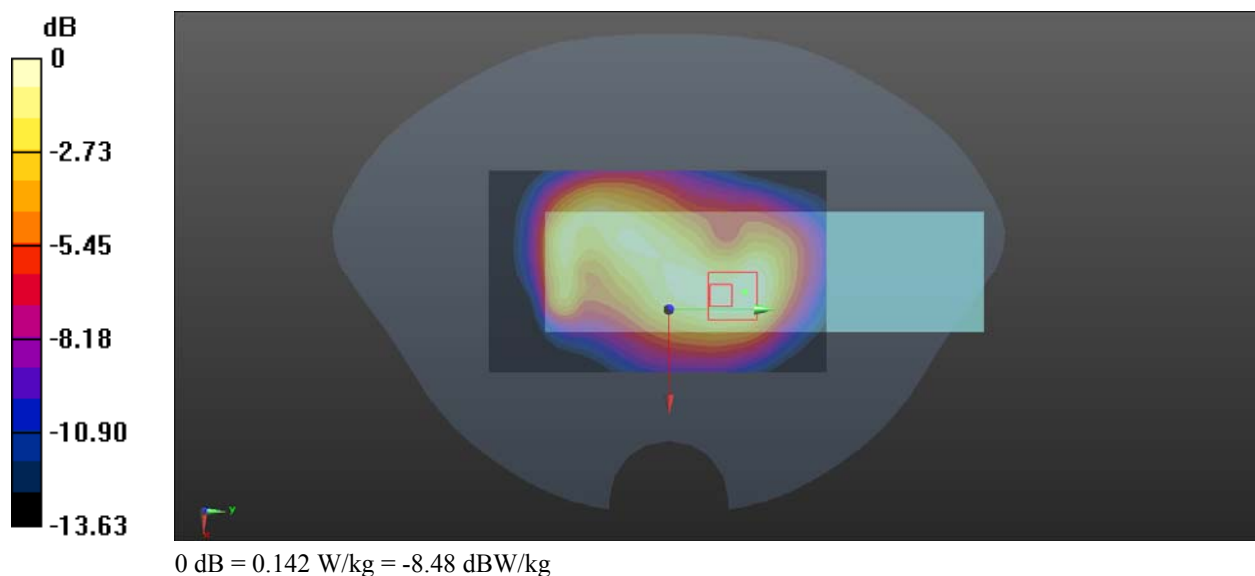
Communication System: Generic FDD-LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.156 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.80 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.170 W/kg
SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.063 W/kg
Maximum value of SAR (measured) = 0.142 W/kg



Test Plot 67#: LTE Band _12 _50%RB _Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

Communication System:, Generic FDD-LTE; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 43.784$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 707.5 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.122 W/kg

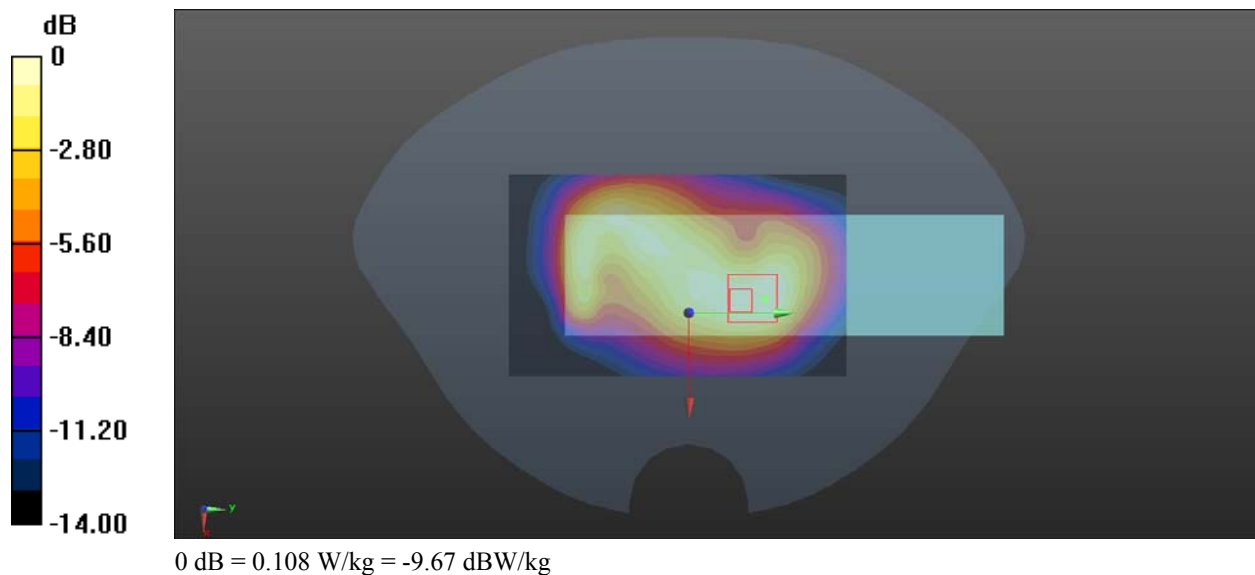
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.561 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.108 W/kg



Test Plot 68#: LTE Band _13_ 1RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

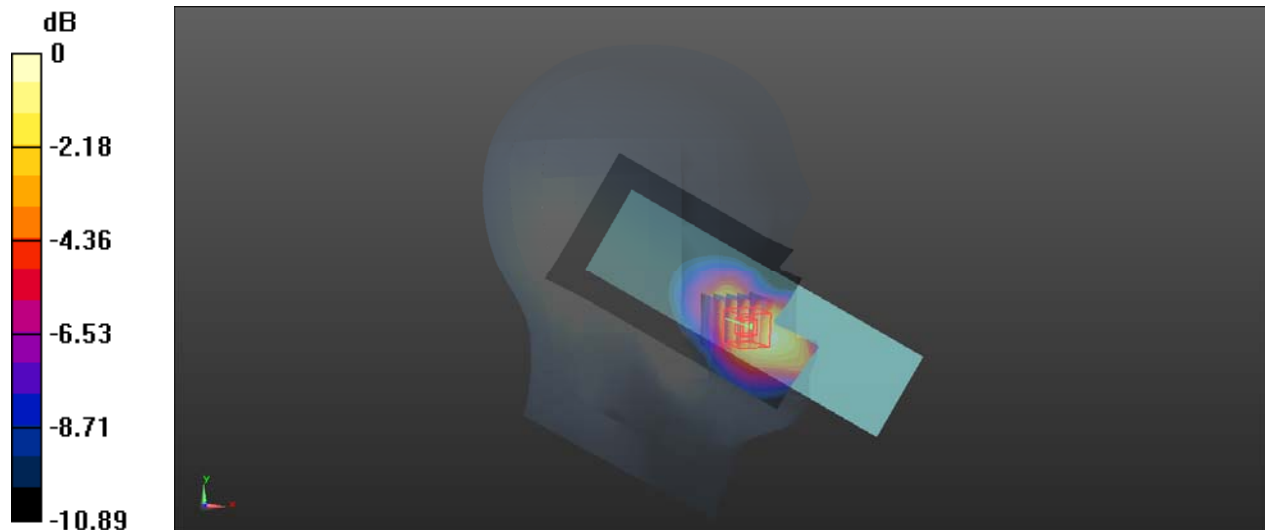
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.226 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.973 V/m ; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.278 W/kg
SAR(1 g) = 0.179 W/kg ; SAR(10 g) = 0.118 W/kg
Maximum value of SAR (measured) = 0.237 W/kg



0 dB = 0.237 W/kg = -6.25 dBW/kg

Test Plot 69#: LTE Band _13 _50%RB _Mid_ Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

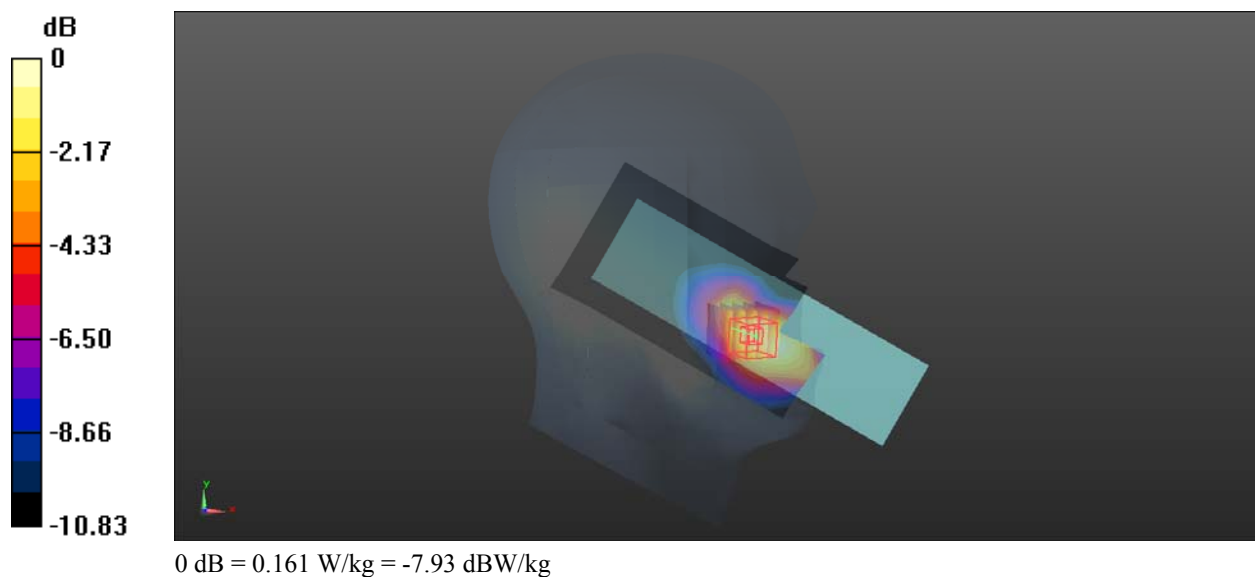
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.156 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.793 V/m ; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.189 W/kg
SAR(1 g) = 0.121 W/kg ; SAR(10 g) = 0.079 W/kg
Maximum value of SAR (measured) = 0.161 W/kg



Test Plot 70#: LTE Band_13_1RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

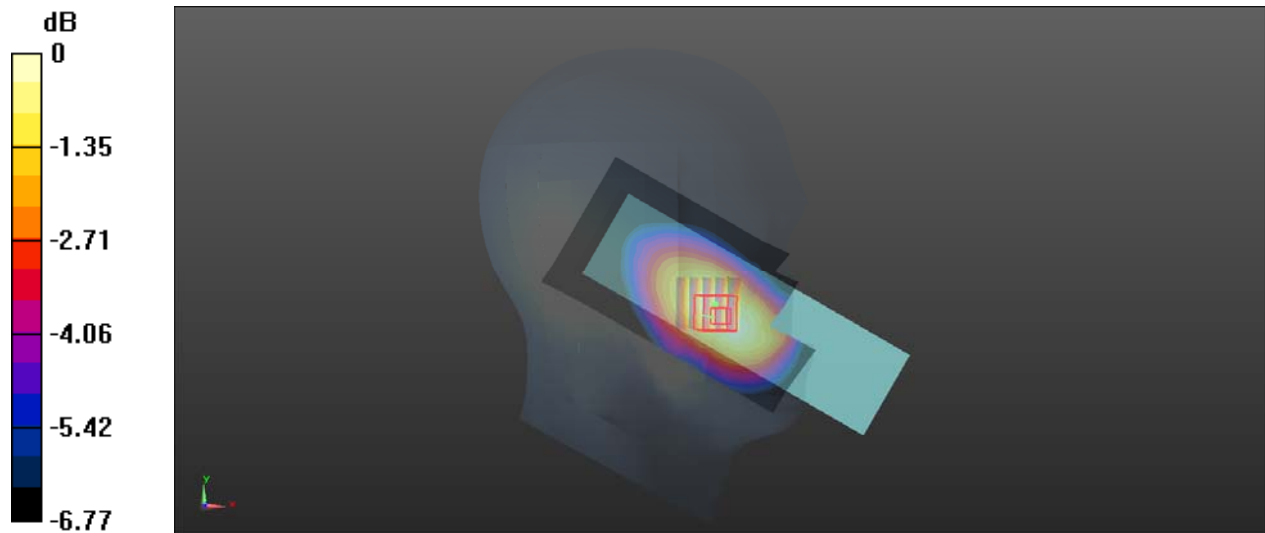
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0548 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.319 V/m ; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.0580 W/kg
SAR(1 g) = 0.046 W/kg ; SAR(10 g) = 0.035 W/kg
Maximum value of SAR (measured) = 0.0532 W/kg



0 dB = 0.0532 W/kg = -12.74 dBW/kg

Test Plot 71#: LTE_Band_13_50%RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

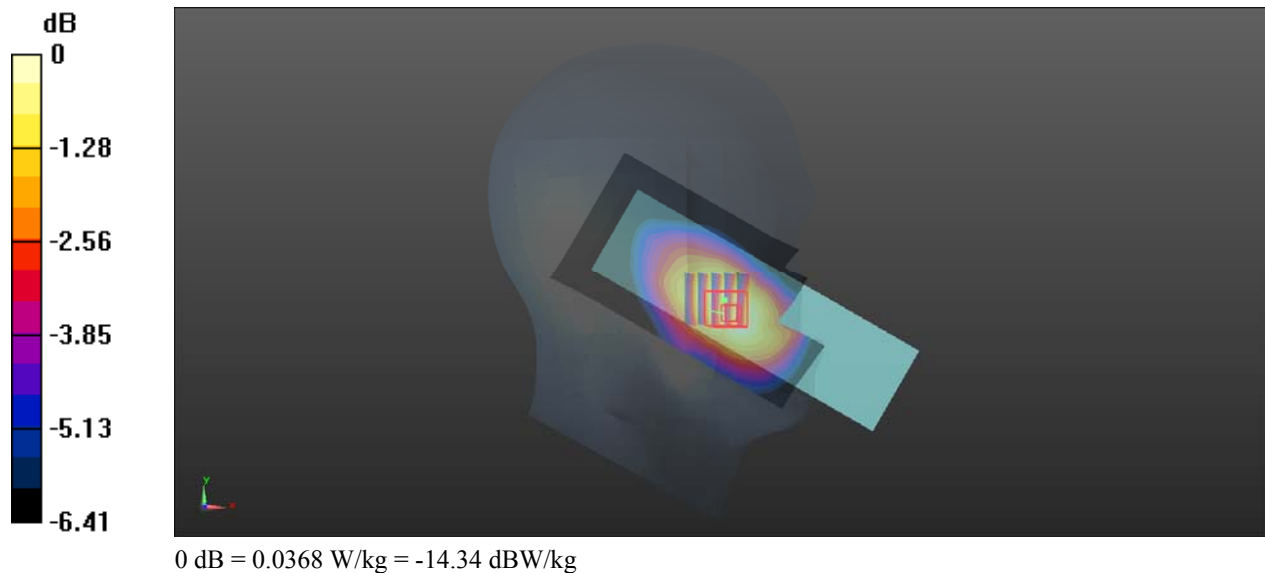
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0382 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.823 V/m ; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.0400 W/kg
SAR(1 g) = 0.032 W/kg ; SAR(10 g) = 0.024 W/kg
Maximum value of SAR (measured) = 0.0368 W/kg



Test Plot 72#: LTE_Band_13_1RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

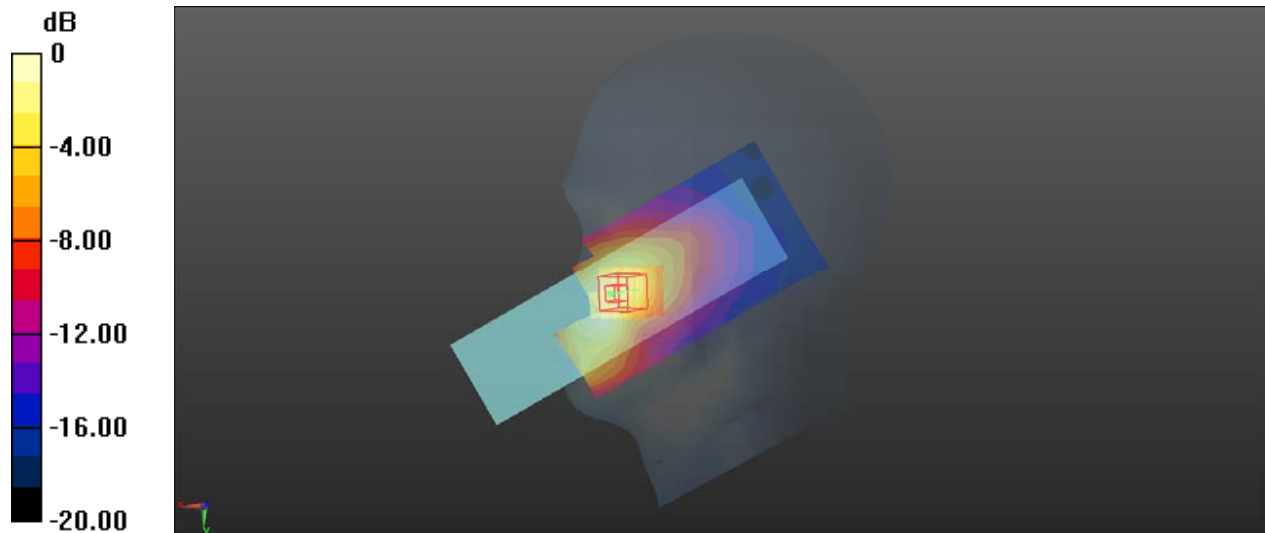
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.171 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 2.198 V/m ; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.178 W/kg
SAR(1 g) = 0.121 W/kg ; SAR(10 g) = 0.081 W/kg
Maximum value of SAR (measured) = 0.156 W/kg



0 dB = 0.156 W/kg = -8.07 dBW/kg

Test Plot 73#: LTE Band_13_50%RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

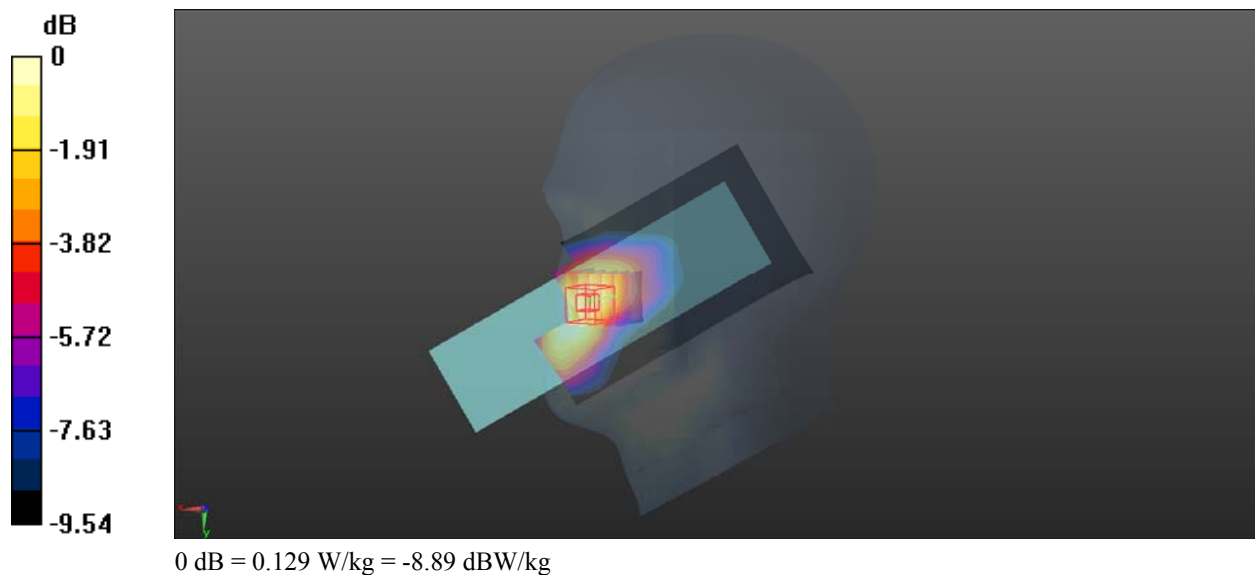
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.139 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 1.327 V/m ; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.147 W/kg
SAR(1 g) = 0.102 W/kg ; SAR(10 g) = 0.073 W/kg
Maximum value of SAR (measured) = 0.129 W/kg



Test Plot 74#: LTE Band_13_1RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

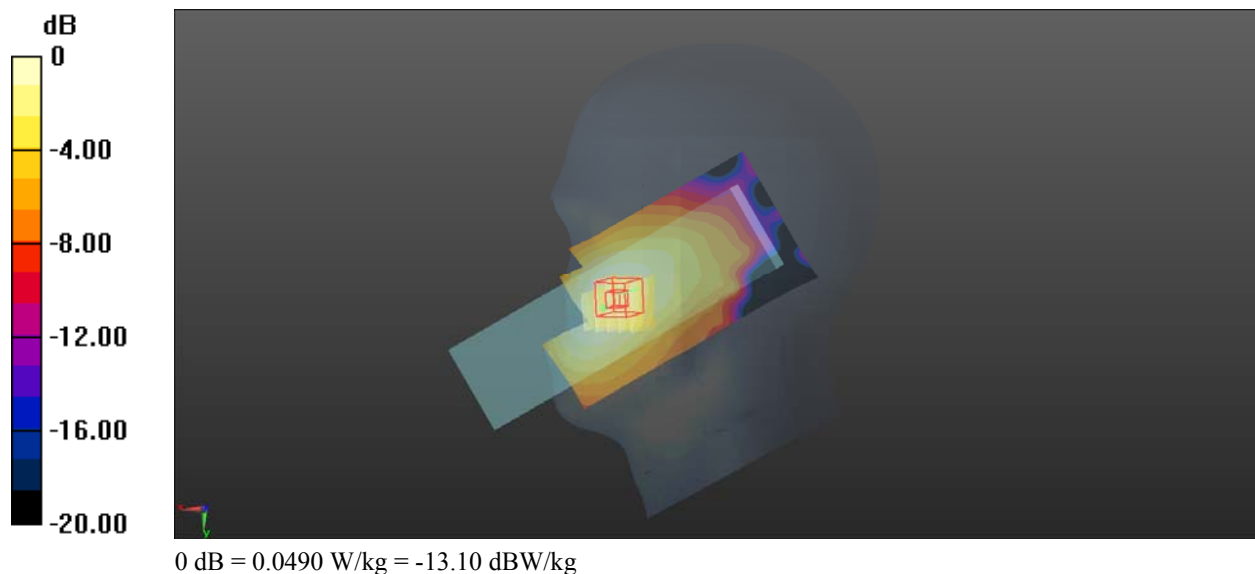
Communication System Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.0490 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 3.614 V/m ; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.0530 W/kg
SAR(1 g) = 0.042 W/kg ; SAR(10 g) = 0.033 W/kg
Maximum value of SAR (measured) = 0.0490 W/kg



Test Plot 75#: LTE_Band_13_50%RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

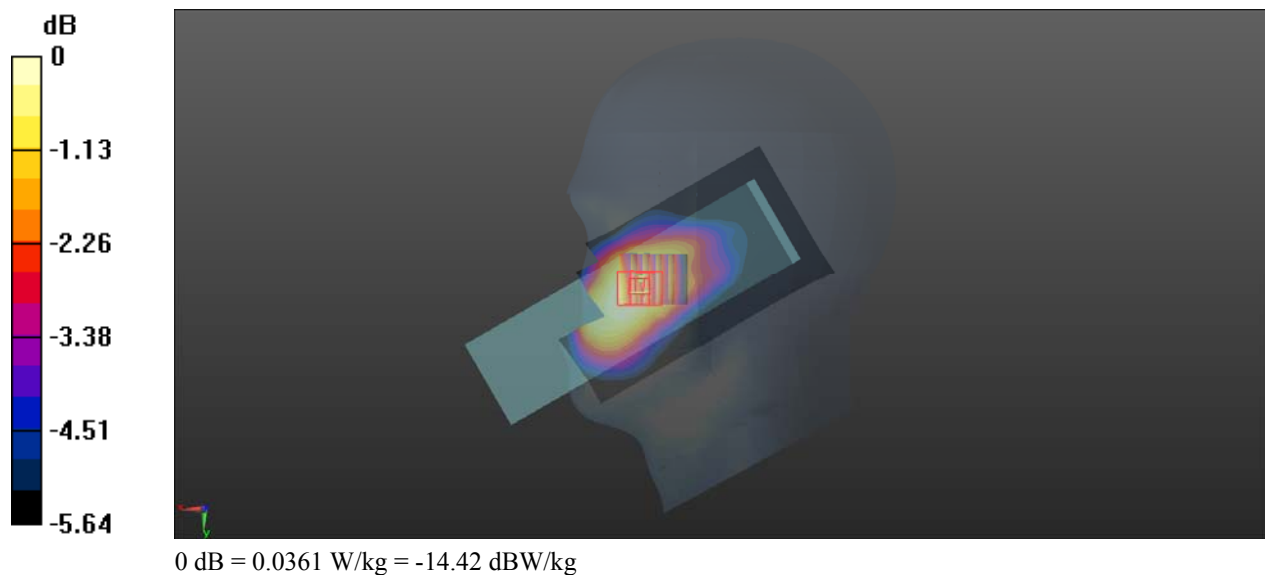
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 42.061$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0374 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.845 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.0390 W/kg
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.025 W/kg
Maximum value of SAR (measured) = 0.0361 W/kg



Test Plot 76#: LTE Band _13 _1RB _Mid _Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

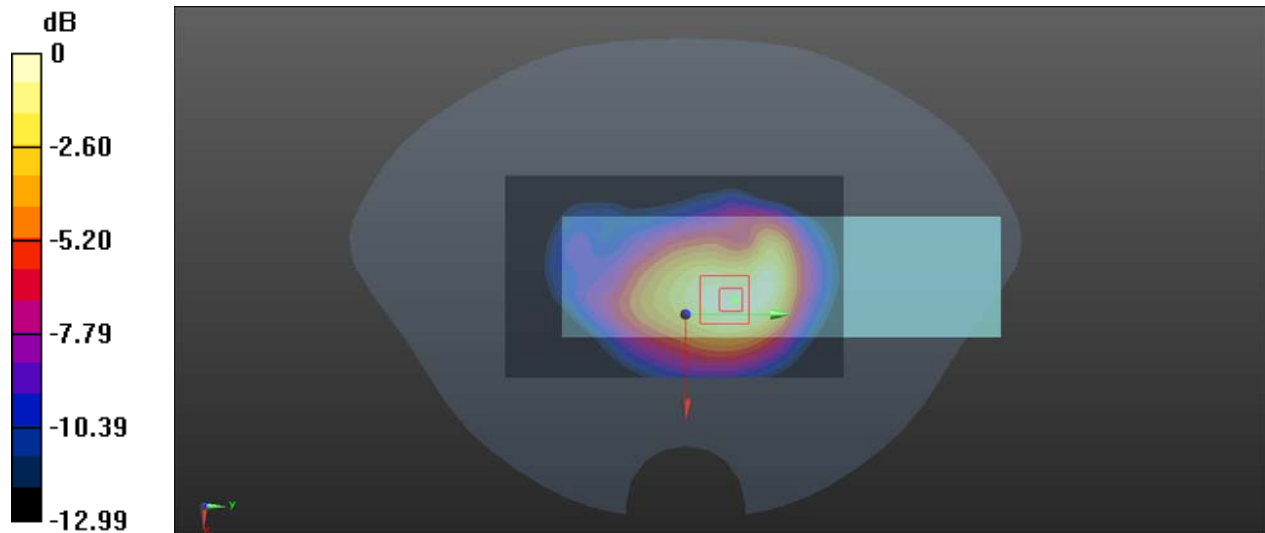
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 42.061$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.413 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 16.44 V/m ; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.489 W/kg
SAR(1 g) = 0.301 W/kg ; SAR(10 g) = 0.194 W/kg
Maximum value of SAR (measured) = 0.416 W/kg



0 dB = 0.416 W/kg = -3.81 dBW/kg

Test Plot 77#: LTE Band _13_ 50%RB _Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

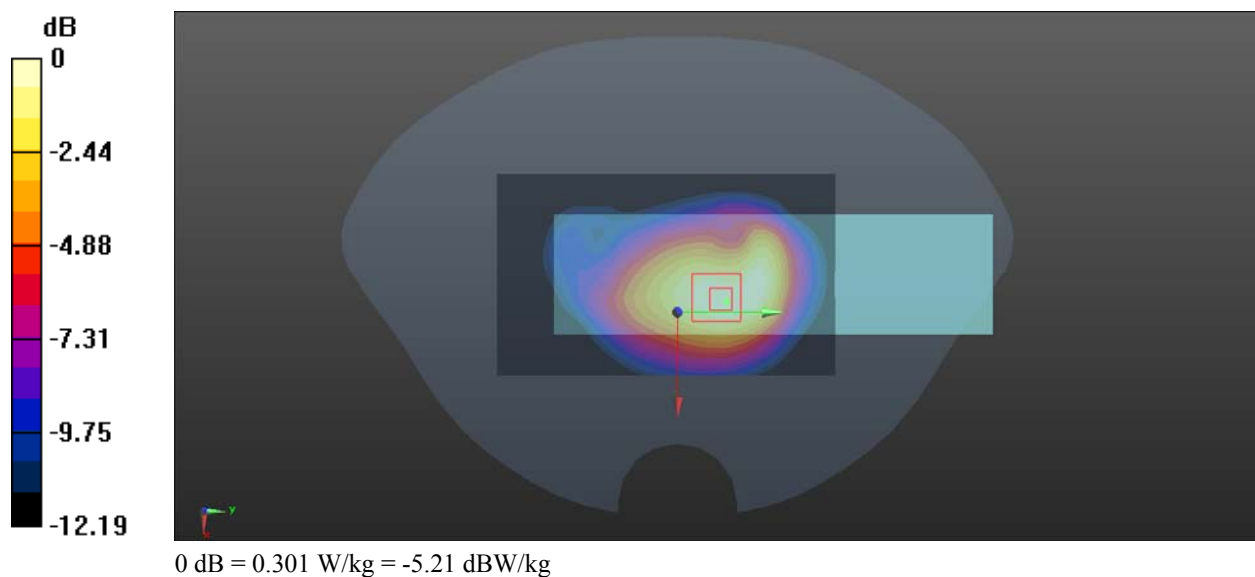
Communication System: Generic FDD-LTE; Frequency: 782 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 782$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 42.061$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 782 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.311 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 13.07 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.362 W/kg
SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.145 W/kg
Maximum value of SAR (measured) = 0.301 W/kg



Test Plot 78#: LTE Band _66_ 1RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

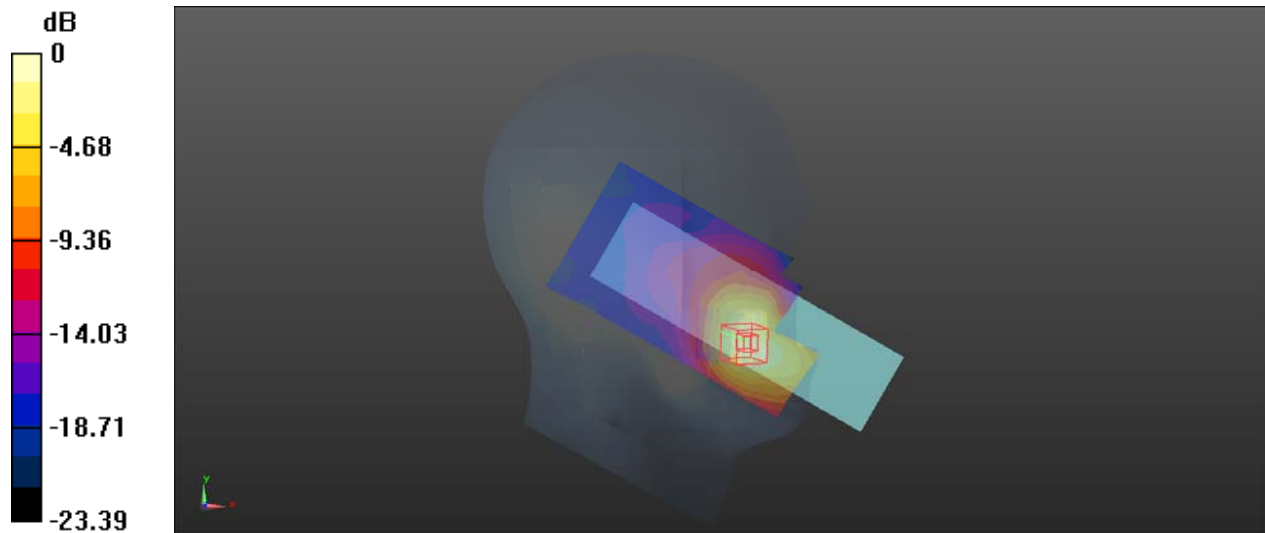
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.383 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.426 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.676 W/kg
SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.152 W/kg
Maximum value of SAR (measured) = 0.402 W/kg



0 dB = 0.402 W/kg = -3.96 dBW/kg

Test Plot 79#: LTE Band_66_50%RB_Mid_Head Left Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

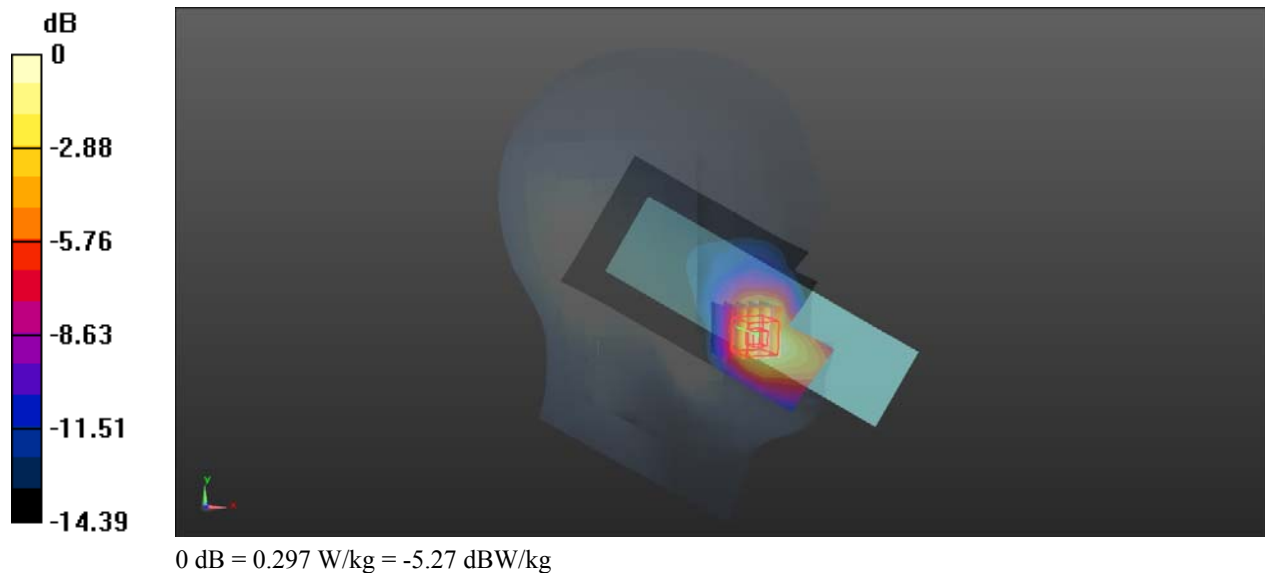
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.303 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.653 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.354 W/kg
SAR(1 g) = 0.216 W/kg; SAR(10 g) = 0.125 W/kg
Maximum value of SAR (measured) = 0.297 W/kg



Test Plot 80#: LTE Band _66_ 1RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

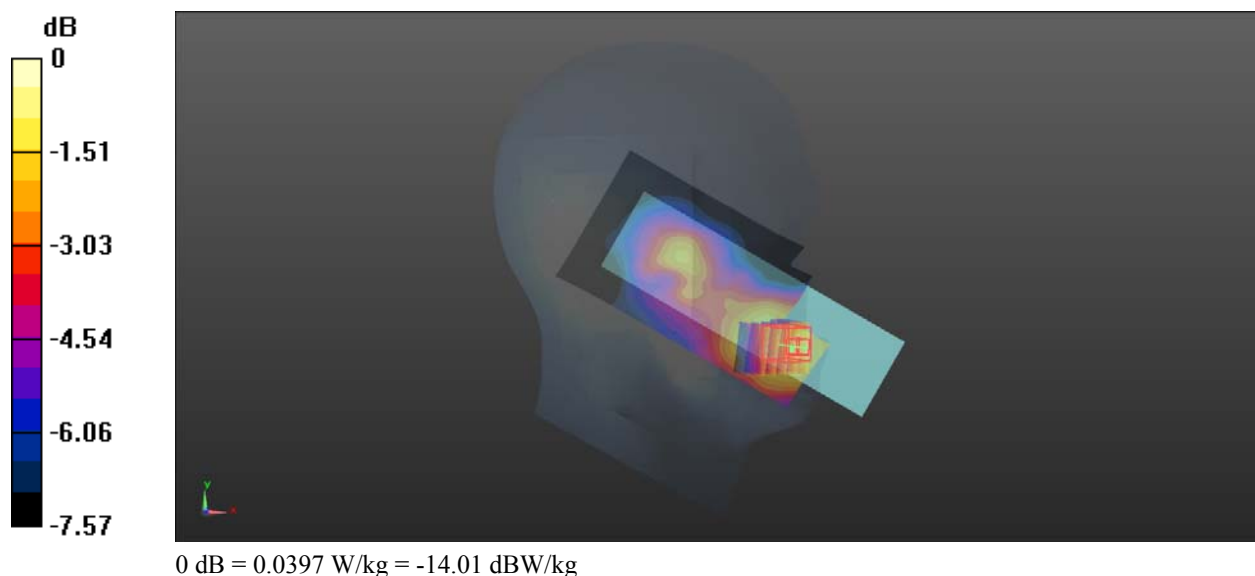
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0361 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.932 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.0420 W/kg
SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.024 W/kg
Maximum value of SAR (measured) = 0.0397 W/kg



Test Plot 81#: LTE Band _66 _50%RB_Mid_Head Left Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

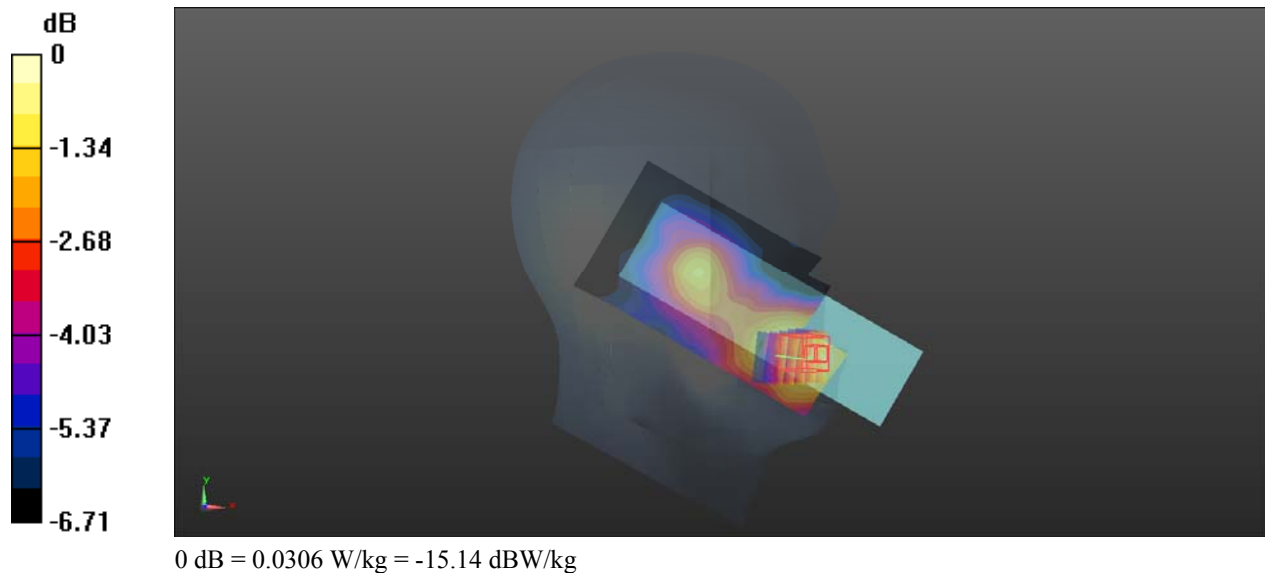
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0296 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.890 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.0330 W/kg
SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.020 W/kg
Maximum value of SAR (measured) = 0.0306 W/kg



Test Plot 82#: LTE Band_66_1RB_Mid_Head Right Cheek**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

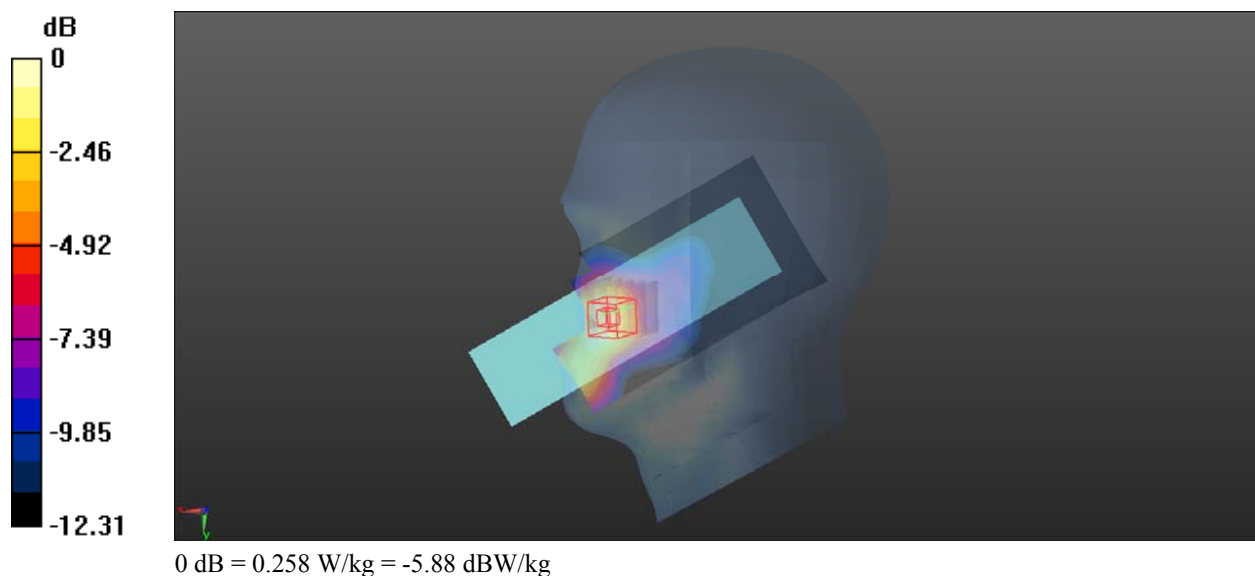
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.265 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.634 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.295 W/kg
SAR(1 g) = 0.195 W/kg; SAR(10 g) = 0.127 W/kg
Maximum value of SAR (measured) = 0.258 W/kg



Test Plot 83#: LTE Band_66_50%RB_Mid_Head Right Cheek

DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1

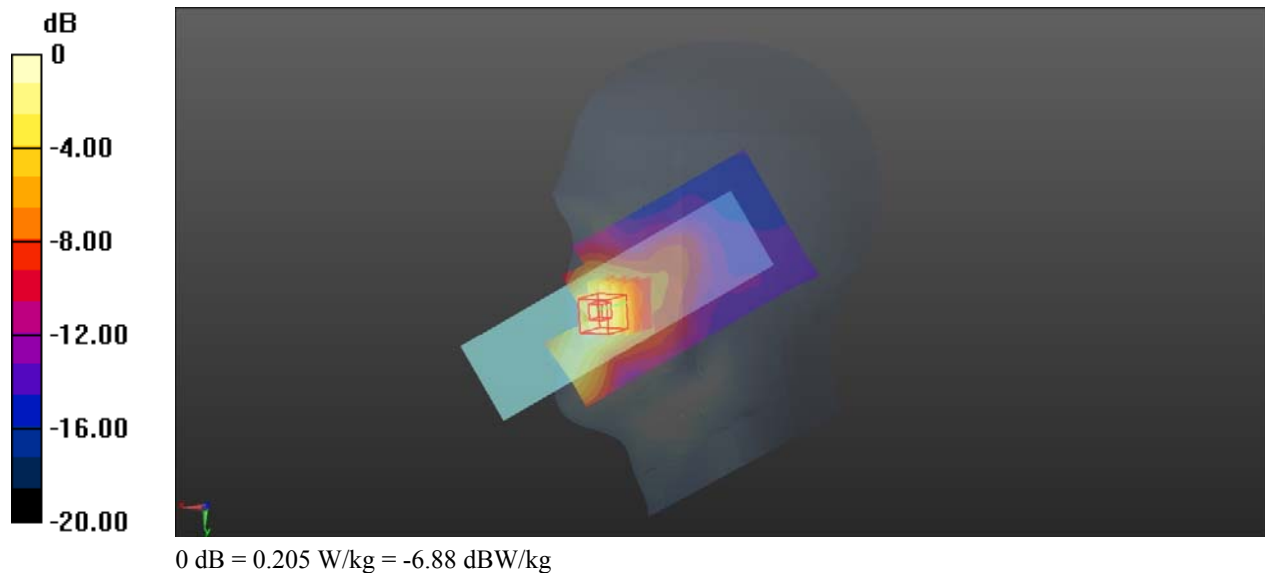
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.205 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 2.860 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.232 W/kg
SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.099 W/kg
Maximum value of SAR (measured) = 0.205 W/kg



Test Plot 84#: LTE Band_66_1RB_Mid_Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

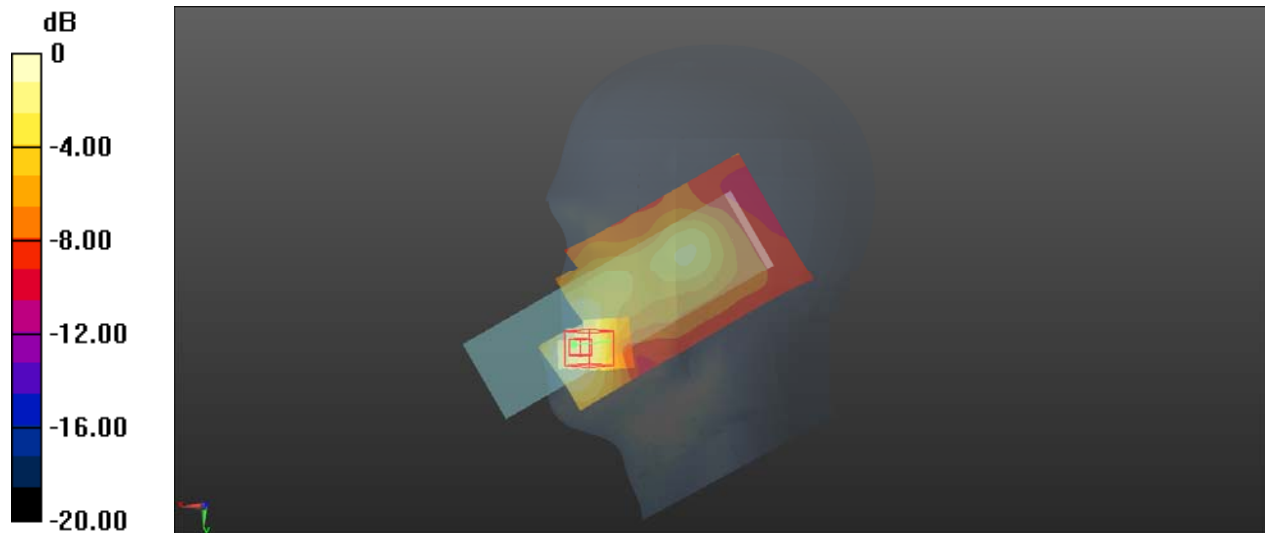
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.0567 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.938 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.0600 W/kg
SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.033 W/kg
Maximum value of SAR (measured) = 0.0550 W/kg



Test Plot 85#: LTE Band _66 _50%RB_Mid_ Head Right Tilt**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

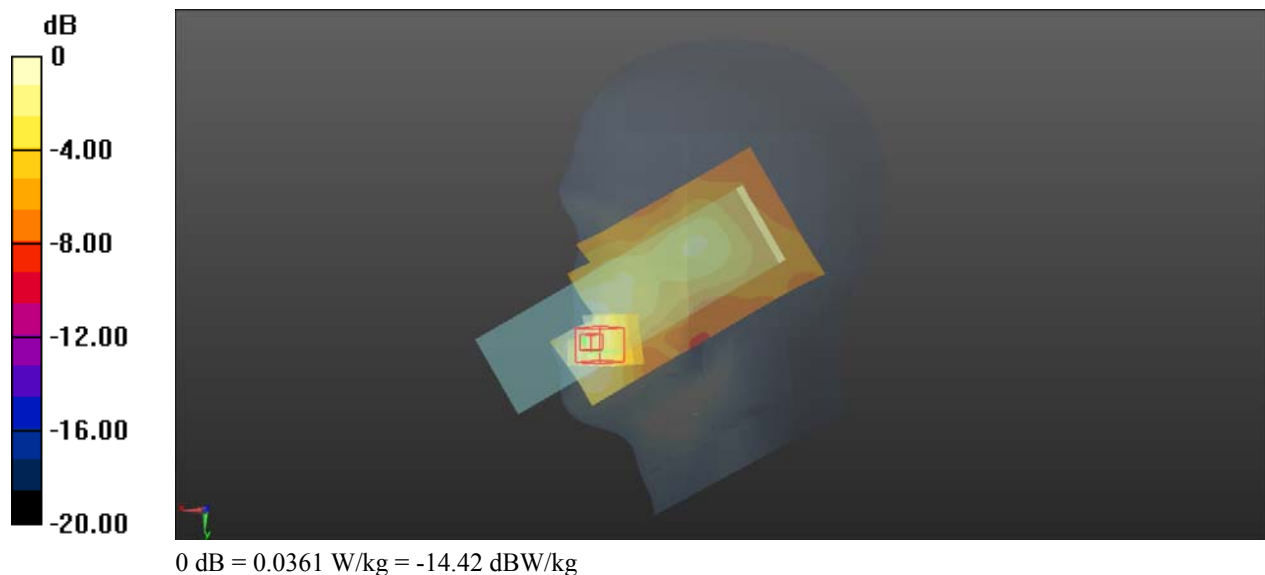
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 0.0385 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 3.400 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.0390 W/kg
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.024 W/kg
Maximum value of SAR (measured) = 0.0361 W/kg



Test Plot 86#: LTE Band_66_1RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

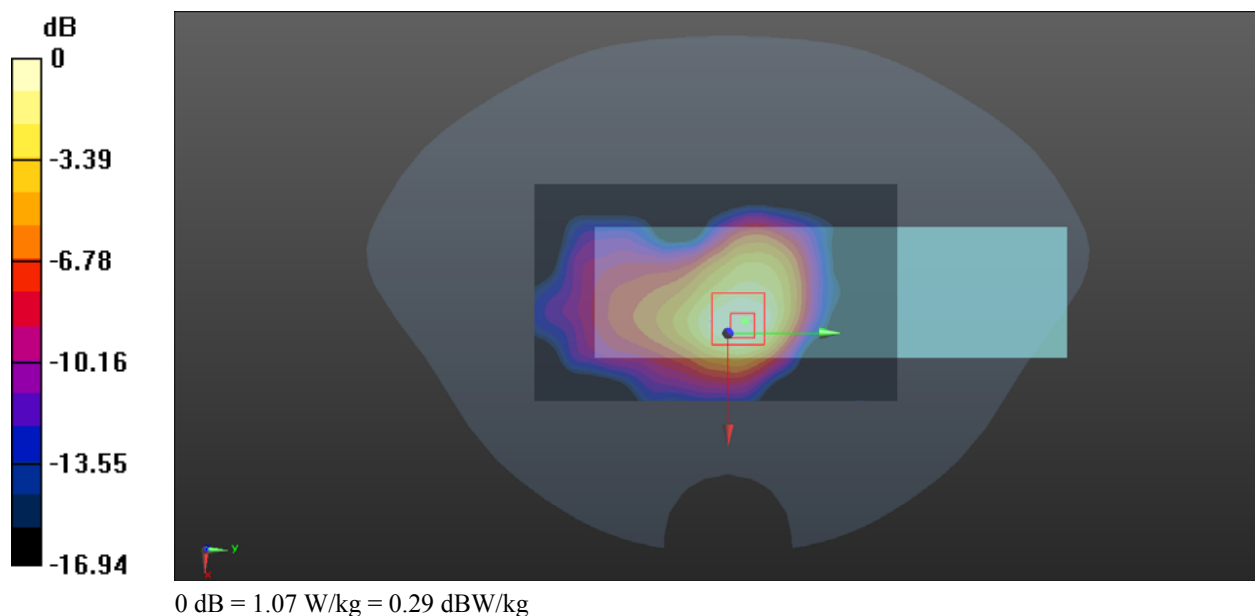
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.36 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 19.36 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.391 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



Test Plot 87#: LTE Band_66_50%RB_Mid_Body Back**DUT: Phone; Type: UNO FLIP 4G; Serial: CR21110023-SA-S1**

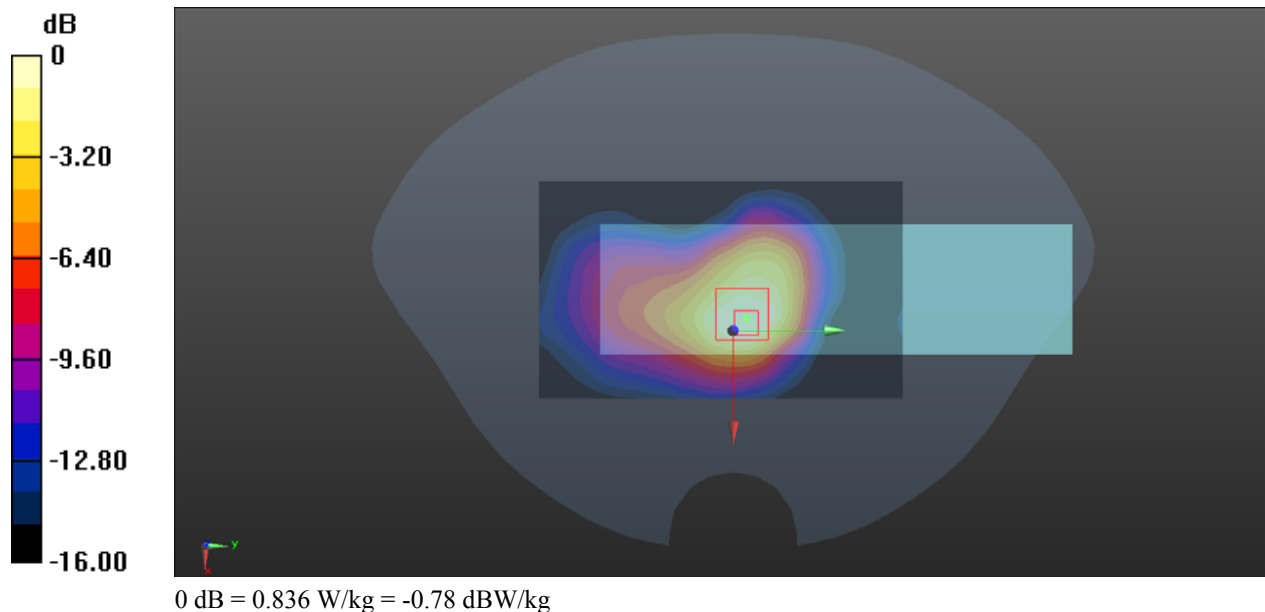
Communication System: Generic FDD-LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 41.515$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7522; ConvF(8.16, 8.16, 8.16) @ 1745 MHz; Calibrated: 2021/4/19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1354; Calibrated: 2021/9/1
- Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.08 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
Reference Value = 17.22 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.312 W/kg
Maximum value of SAR (measured) = 0.836 W/kg



APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.3	6.3
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions– reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Post-processing	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.1	23.7

Measurement uncertainty evaluation for IEC62209-1 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.3	6.3
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
RF ambient conditions– reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Post-processing	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
Phantom and set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.0	23.6

APPENDIX B EUT TEST POSITION PHOTOS

Liquid depth $\geq 15\text{cm}$

Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412



Body Back Setup Photo(5 mm)



Body Worn Back Setup Photo(5 mm)



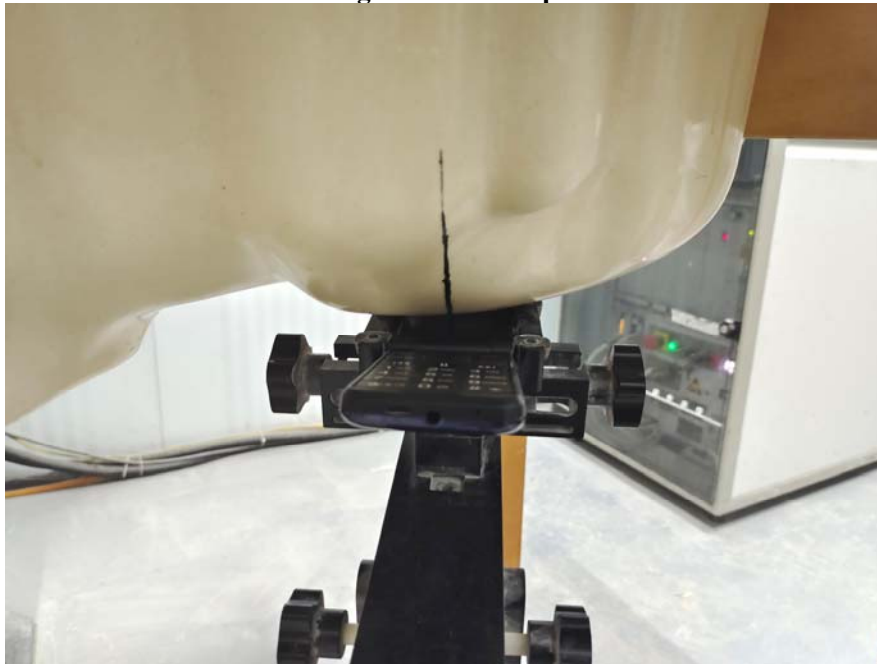
Head Left Cheek Setup Photo



Head Left Tilt Setup Photo



Head Right Cheek Setup Photo



Head Right Tilt Setup Photo



APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

******* END OF REPORT *******