

SAR Test Report

Part 1 of 4

Project Number: 5315129**Offer No.:** SUW-202410007210**Report Number:** SUW5315129EMC07**Revision:** 2**Client:** Track Group Inc.**Equipment Under Test:** Electronic Monitoring Ankle Bracelet**Model Name:** ReliAlert XC5**Model Number:** OTD 5.0**FCC ID:** TPO-OTD50**Applicable Standards:** FCC Part 2.1093**Report issued on:** 18 June 2026**Test Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER 17025 CERTIFICATE NUMBER: 3212.01

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1 SUMMARY OF RESULTS

RF Exposure Conditions	General Population/Uncontrolled		Compliance to FCC Part 2 Section §2.1093
	Localized SAR 1g (Head and Body)	Localized SAR 10g (Extremities)	
	NA	10 W/kg	

Equipment Class	Band	Highest SAR values (W/kg)				
		Head		Body		Extremity
		1g	10g	1g	10g	10g
PCB	LTE Bands 2/25 1850-1915MHz	NA	NA	NA	NA	0.39
PCB	LTE Band 4 1710-1755MHz	NA	NA	NA	NA	0.33
PCB	LTE Bands 5/26 814-849MHz	NA	NA	NA	NA	0.56
PCB	LTE Band 7 2500-2570MHz	NA	NA	NA	NA	0.66
PCB	LTE Band 12 699-716MHz	NA	NA	NA	NA	0.61
PCB	LTE Band 13 777-787MHz	NA	NA	NA	NA	0.77
PCB	LTE Band 14 788-798MHz	NA	NA	NA	NA	0.68
DTS	WLAN 2.4GHz 2400-2483.5 MHz	NA	NA	NA	NA	0.06
DTS	WLAN 5GHz 5150-5850MHz	NA	NA	NA	NA	0.03
DTS	Bluetooth 2402-2480MHz	NA	NA	NA	NA	0.06
Simultaneous Results		NA	NA	NA	NA	0.83

2 GENERAL INFORMATION

2.1 CLIENT INFORMATION

Name: Track Group Inc.
Address: 200 East 5th Ave. Suite 100
City, State, Zip, Country: Naperville, Illinois 60563, USA

2.2 TEST LABORATORY

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

2.3 GENERAL INFORMATION OF EUT

Equipment Under Test: Electronic Monitoring Ankle Bracelet
Model Name: ReliAlert XC5
FCC ID: TPO-OTD50
Host Model Number: OTD 5.0
Sample ID Number: Conducted: P5020024
LTE Radiated: P5020021
LTE Radiated: P5020022
LTE Radiated: P5020023
WLAN/BT Radiated: E0100002
WLAN/BT Radiated: E0100010
WLAN/BT Radiated: E0100011

Frequencies of Operation: Cellular LTE, WLAN/BT 2.4/5GHz
See Section 2.4 of this report for details

Maximum Conducted Power: See Section 2.4 of this report

Battery Model: 10510 Lithium Ion Battery Pack 3.6VDC
Antenna Model: LTE Multiband Internal Patch Antenna, CZ0034-5L01-040-02
WLAN Dual Band (2.4/5GHz) / BT PCB Chip SMD Antenna
SZP-C-1W11,

*Antenna Gain: LTE Multiband
698-960MHz 0.84dBi
1710-2200MHz 1.87dBi
2500-2690MHz 3.94dBi
WLAN/BT
2400-2500MHz 0.8dBi
5150-5850MHz 2.48dBi

Dates of testing: LTE Dates: 9 June 2025 – 11 June 2025
WLAN/BT Dates: 6 October 2025 – 9 October 2025

**Data was not measured by SGS laboratory and therefore SGS is not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.*

Note: Client has turned off 2G & 3G cellular. A tune-up procedure has been provided as a technical document to FCC & ISED.

2.4 TX FREQUENCY BANDS

Band / Mode		Frequency Range MHz	Channel Bandwidths MHz	Specified Maximum Power (dBm)
Band 2	LTE	1850-1910	1.4, 3, 5, 10, 15, 20	23
Band 4	LTE	1710-1755	1.4, 3, 5, 10, 15, 20	23
Band 5	LTE	824-849	1.4, 3, 5, 10	23
Band 7	LTE	2500-2570	5, 10, 15, 20	23
Band 12	LTE	699-716	1.4, 3, 5, 10	23
Band 13	LTE	777-787	5, 10	23
Band 14	LTE	788-798	5, 10	23
Band 25	LTE	1850-1915	1.4, 3, 5, 10, 15, 20	23
Band 26	LTE	814-849	1.4, 3, 5, 10, 15	23
WLAN 2.4GHz	802.11 b	2400 – 2483.5	20	14.5
WLAN 2.4GHz	802.11 g/n	2400 – 2483.5	20	16.5
WLAN 5GHz UNII-1	802.11 a/n	5170 – 5250	20	11.5
WLAN 5GHz UNII-2A	802.11 a/n	5250 – 5330	20	12.0
WLAN 5GHz UNII-2C	802.11 a/n	5490 – 5710	20	12.5
WLAN 5GHz UNII-3	802.11 a/n	5735 – 5835	20	8.5
Bluetooth	BLE	2400-2483	1, 2	13

2.5 EQUIPMENT UNDER TEST

Device Description	Electronic Monitoring Ankle Bracelet
Device Category	Extremity
Stage of production	Production unit
Intended Use	Ankle worn
Antennas	LTE Antenna CZ0034-5L01-040-02 WLAN Dual Band / BT Antenna SZP-C-1W11
Battery	10510 Lithium Ion Battery Pack 3.6VDC
Optional Accessories	Flexible Strap in variety of sizes (Photo in Appendix A) Secure Cuff in variety of sizes (Photo in Appendix A)

2.6 EUT PHOTO



Additional photos in Appendix A.

2.7 TEST METHODOLOGY AND REFERENCED STANDARDS AND GUIDELINES

Tests were conducted in accordance with the following applicable standards and guidelines.

IEC62209-1528 Edition 1.0 2020-10, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –

Part 1528: Human models, instrumentation, and procedures
(Frequency Range of 4 MHz to 10 GHz)

IEEE Std 1528™-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

IEEE C95.1 – 1992, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields

Ministry of Health (Canada) Safety Code 6 (2015), Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz

RSS – 102 Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus

RSS – 102.SAR.MEAS – Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102

Federal Communications Commission, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields”, OET Bulletin 65, FCC, Washington, D.C.: 1997.

FCC KDB – 447498 D01 General RF Exposure Guidance v06

FCC KDB – 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04

FCC KDB – 865664 D02 RF Exposure Reporting v01r02

FCC KDB – 941225 D05 SAR for LTE Devices v02r05

FCC KDB – 248227 D01 802.11 WiFi SAR v02r02

3 TEST EQUIPMENT AND MEASUREMENT SYSTEM

3.1 TEST EQUIPMENT

Test Start Date: 6-Jun-2025

Test End Date: 9-Oct -2025

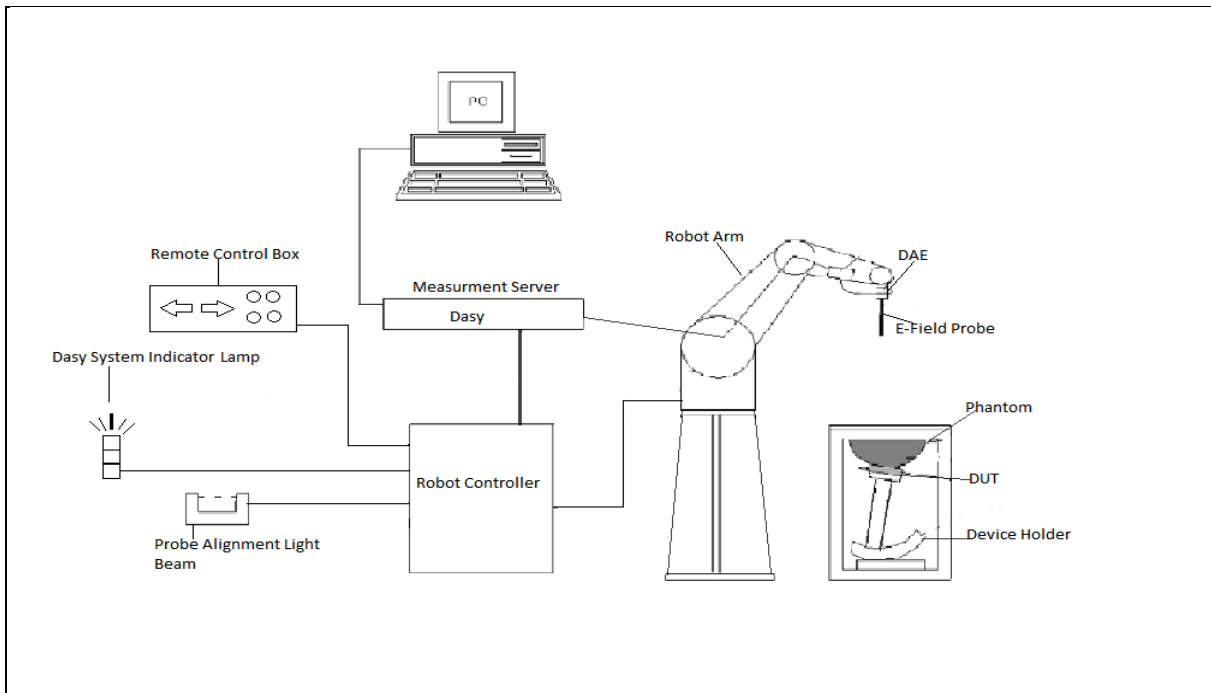
Tester: PL

Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
DATA ACQUISITION ELECTRONICS	SD 000 D04 BM	SPEAG	16004	3-Feb-2025	3-Feb-2026
DIELECTRIC PROBE KIT	DAK-3.5	SPEAG	B079797	3-Feb-2025	3-Feb-2026
SAR DIPOLE	D5GHZV2	SPEAG	B079795	22-Feb-2023	22-Feb-2026
SAR DIPOLE	D2450V2	SPEAG	B079805	2-Feb-2023	2-Feb-2026
SAR DIPOLE	D1900V2	SPEAG	B079809	30-Jan-2023	30-Jan-2026
SAR DIPOLE	D1750V2	SPEAG	B079806	6-Feb-2023	6-Feb-2026
SAR DIPOLE	D835V2	SPEAG	B079808	6-Feb-2023	6-Feb-2026
SAR DIPOLE	D750V3	SPEAG	B085750	6-Feb-2023	6-Feb-2026
SAR DOSIMETRIC E-FIELD PROBE	EX3DV4	SPEAG	B079814	30-Jan-2025	30-Jan-2026
SAR DOSIMETRIC E-FIELD PROBE	ES3DV3	SPEAG	B079815	30-Jan-2025	30-Jan-2026
POWER METER	E4419B	AGILENT	B079628	6-Dec-2024	6-Dec-2025
POWER SENSOR	8481A	AGILENT	B079679	6-Dec-2024	6-Dec-2025
POWER SENSOR	8481A	AGILENT	B086132	6-Dec-2024	6-Dec-2025
DIRECTIONAL COUPLER	778D	HEWLETT PACKARD	B087456	7-Jul-2023	7-Jul-2026
DIRECTIONAL COUPLER	11692D	HEWLETT PACKARD	B079666	4-Aug-2023	4-Aug-2026
85MHZ-14GHZ VECTOR REFLECTOMETER	R140	COPPER MOUNTAIN	20149	31-Jan-2025	31-Jan-2026
SIGNAL GENERATOR (TS8997)	SMB 100A	ROHDE & SCHWARZ	B094876	16-Nov-2023	16-Nov-2026
TEMP / HUMIDITY LOGGER	EL-WIFI-TH+	LASCAR ELECTRONICS	23000	24-Sep-2025	24-Sep-2026
*MULTIMETER THERMOMETER	87V	FLUKE	23014	20-Aug-2024	20-Aug-2025
DIGITAL THERMOMETER	DTM3000SPE ZIAL	LKM ELECTRONIC	B079798	5-Jun-2025	5-Jun-2026

Note; Fluke 23014 was used during LTE testing with test dates 9 June 2025 – 11 June 025.

LKM Electronic was used during WLAN/BLE testing with test dates 6 October 2025 – 9 October 2025.

3.3 MEASUREMENT SYSTEM BLOCK DIAGRAM



The DASY52 SAR test system version 52.10 (4) consists of:

- 1 TX60L Stäubli Robot and system controller cabinet
- 1 Electro Optical Converter mounted on robot's arm
- Robot stand
- Robot remote controller
- Light beam for E-field probe alignment
- DASY5 measurement server
- SAM Twin Phantom or Oval
- Hand-Held/ Laptop device holder
- PC with DASY5 software
- Data Acquisition Electronics (DAE)
- System validation dipole kit
- HBBL600-10000V6 Head Simulating Liquid
- E-field probe
- Warning lamps

3.4 MEASUREMENT SYSTEM PHANTOM DESCRIPTIONS

Type	Dimensions	Frequency Range	Dielectric (ϵ_r)	Loss Tangent	Material Thickness
Oval ELI5	600x400x190	300MHz - 6GHz	4 ± 1	<0.05	2mm $\pm$ 0.2mm
SAM	Human Shaped		< 5		

3.5 MEASUREMENT SYSTEM TISSUE DESCRIPTION

Broadband tissue simulation liquid HBBL600-10000V6 was used for SAR testing. Manufactured by Speag and main ingredients are water and oil.

Dielectric Assessment Kit (DAK) was used to measure tissue parameters daily.

4 SYSTEM VALIDATIONS AND VERIFICATIONS

4.1 SYSTEM VALIDATIONS

System validations were completed following KDB 856664 and are summarized in table below.

Dates	Probe Calibration Point		Probe SN	Measured Tissue Parameters		Validation		
				σ	ϵ_r	Sensitivity	Linearity	Isotropy
CW								
3/13/2025	Head	1810	3272	41.3035	1.3600	Pass	Pass	Pass
3/13/2025	Head	1900	3272	41.1670	1.4146	Pass	Pass	Pass
3/13/2025	Head	2450	3272	40.4021	1.7983	Pass	Pass	Pass
3/14/2025	Head	750	3272	42.2614	0.8855	Pass	Pass	Pass
3/14/2025	Head	900	3272	41.7950	0.9375	Pass	Pass	Pass
3/14/2025	Head	2450	1149	39.1964	1.7715	Pass	Pass	Pass
3/7/2025	Head	5200	1149	33.9156	4.4384	Pass	Pass	Pass
4/24/2025	Head	5600	1149	34.1190	4.7242	Pass	Pass	Pass
4/25/2025	Head	5800	1149	33.6130	5.0180	Pass	Pass	Pass
LTE								
3/19/2025	Head	1810	3272	40.3872	1.3596	Pass	Pass	Pass
3/21/2025	Head	750	3272	42.8615	0.8836	Pass	Pass	Pass
3/21/2025	Head	900	3272	42.5845	0.9128	Pass	Pass	Pass
3/21/2025	Head	1900	3272	40.5641	1.4119	Pass	Pass	Pass
3/21/2025	Head	2450	3272	39.8572	1.7757	Pass	Pass	Pass
802.11								
3/24/2025	Head	2450	1149	39.2264	1.76951	Pass	Pass	Pass
8/20/2025	Head	5500	1149	35.9221	4.02731	Pass	Pass	Pass
9/2/2025	Head	5600	1149	36.4586	4.75327	Pass	Pass	Pass
9/4/2025	Head	5800	1149	34.9665	4.92643	Pass	Pass	Pass

4.2 SYSTEM VERIFICATIONS

System verification is required for the probe calibration points used to measure SAR. The measured results are normalized to 1W and compared to the results from applicable dipole calibration certificates. Results must be within $\pm 10\%$ of target values.

System verifications were completed within 24 hours of SAR testing and results are summarized in table below.

Date	Dipole	Frequency (MHz)	Zoom SAR (1g)	Zoom SAR Normalized 1W (1g)	1W Dipole Target SAR (1g)	% Error from Validation Target (1g)	Zoom SAR (10g)	Zoom SAR Normalized 1W (10g)	% Error from Validation Target (10g)
6/9/2025	D750V3	750	3.62	8.23	8.5	-3.21%	2.41	5.48	-1.84%
6/10/2025	D835V2	835	3.97	9.93	9.9	0.25%	2.62	6.55	0.25%
6/10/2025	D1750V2	1750	3.99	36.27	36.2	0.20%	2.12	19.27	0.20%
6/10/2025	D1900V2	1900	3.87	38.70	39.3	-1.53%	2.02	20.20	-1.53%
6/11/2025	D2450V2	2450	4.30	53.75	51.4	4.57%	2.00	25.00	4.57%
10/6/2025	D5GHzV2	5600	4.00	80.00	83.3	-3.96%	1.13	22.60	-3.96%
10/6/2025	D5GHzV2	5800	3.74	74.80	80.6	-7.20%	1.06	21.20	-7.20%
10/7/2025	D5GHzV2	5200	3.89	77.80	78.1	-0.38%	1.11	22.20	-0.38%
10/7/2025	D2450V2	2450	2.69	53.80	51.4	4.67%	1.26	25.20	4.67%
10/9/2025	D2450V2	2450	2.72	54.40	51.4	5.84%	1.28	25.60	5.84%

4.3 TISSUE MEASUREMENT RESULTS

The tissue dielectric parameters were measured at the beginning of the test or within 24 hours of the first SAR test. All measured dielectric parameters are within $\pm 10\%$ tolerance values shown in Table 1. The $\pm 10\%$ tolerance is permitted when using SAR correction formula for deviation from target dielectric values.

Date	Freq	Measured data		Target data : Head		Deviation %	
		ϵ'	σ (S/m)	ϵ'	σ (S/m)	ϵ'	σ (S/m)
6/9/2025	750	40.699	0.859	41.942	0.893	-2.963	-3.852
	711	40.831	0.847	42.144	0.890	-3.116	-4.910
	782	40.559	0.873	41.718	0.897	-2.778	-2.671
	793	40.559	0.873	41.718	0.897	-2.778	-2.671
6/10/2025	835	40.490	0.891	41.555	0.910	-2.563	-2.090
	841.5	40.470	0.894	41.531	0.913	-2.554	-2.111
	1732.5	38.676	1.292	40.107	1.361	-3.567	-5.032
	1745	38.656	1.299	40.087	1.368	-3.571	-5.033
	1750	38.647	1.302	40.079	1.371	-3.572	-5.032
	1900	38.418	1.387	40.000	1.400	-3.956	-0.920
	1905	38.411	1.390	40.000	1.400	-3.973	-0.712
6/11/2025	2450	36.409	1.707	39.200	1.800	-7.121	-5.166
	2510	36.324	1.748	39.124	1.865	-7.156	-6.295
10/6/2025	5600	33.893	4.727	35.529	5.065	-4.603	-6.671
	5700	33.707	4.835	35.414	5.168	-4.821	-6.436
	5800	33.545	4.957	35.300	5.270	-4.971	-5.947
	5825	33.507	4.988	35.271	5.296	-5.004	-5.802
10/7/2025	2412	38.433	1.718	39.268	1.766	-2.125	-2.708
	2437	38.397	1.736	39.223	1.788	-2.106	-2.945
	2450	38.378	1.745	39.200	1.800	-2.096	-3.066
	5200	34.241	4.249	35.986	4.655	-4.847	-8.719
	5320	34.128	4.373	35.849	4.778	-4.798	-8.472
10/9/2025	2402	38.376	1.755	39.285	1.757	-2.102	-2.489
	2450	38.444	1.722	39.200	1.800	-2.142	-1.999

5 ENVIRONMENTAL CONDITIONS

The SAR Laboratory is controlled environment. The ambient temperature is maintained between 18 – 25°C and tissue temperatures are monitored to ensure $\pm 2^\circ\text{C}$ is maintained otherwise tissue parameters are remeasured. The tissue level is confirmed to be $\geq 15\text{cm}$.

Date	Tissue Type	Tissue Temp. Range C°		Lab Temp. Range C°	
		Min	Max	Min	Max
6/9/2025	Head	22.20	22.70	23.92	24.21
6/10/2025	Head	22.20	22.70	23.41	24.44
6/11/2025	Head	22.80	24.00	23.18	23.41
10/6/2025	Head	22.88	23.01	23.87	24.89
10/7/2025	Head	22.53	23.30	24.29	24.89
10/9/2025	Head	23.19	23.80	24.47	24.89

RF ambient noise is monitored by conducting a noise cube scan during system verification. A spectrum analyzer is used to monitor unwanted signals that might influence measurements.

The tissue depth was verified to be $\geq 15\text{cm}$.

6 MEASUREMENT PROCEDURES

6.1 HEAD CONFIGURATION

NA

6.2 BODY-WORN CONFIGURATION

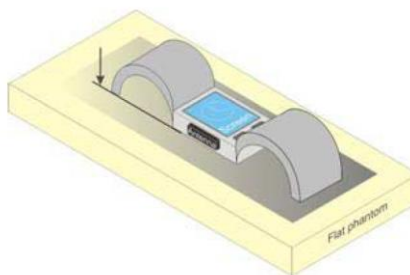
NA

6.3 LIMB CONFIGURATION

A limb-worn device is intended to be strapped to the arm or leg of the user while transmitting. The strap should be opened or removed depending on type of strap. The device shall be positioned directly against phantom surface with strap straightened as much as possible and the back of the device towards the phantom.

The device under test is designed to be worn on a leg.

Photos of EUT are included in Appendix A of this report.



6.4 SAR PROCEDURES SETUP

- Area Scan is used for a fast scan in two dimensions to find the area of high field values before any finer measurement around the hotspot. The routines implemented in the DASY5 software can find the maximum locations.
- Zoom Scan is used to assess the peak spatial values within a cubic averaging volume containing 1g and 10g of simulated tissue. The scan measures points within the cube. Once measurement is done the values are displayed within the job's label.
- Power Drift will measure the field at the same location as the most recent power reference measurement within the same procedure and settings. The Power Drift Measurement gives the field difference in dB.
- Z- Scan measure points along a straight vertical line. The lines run along the z-axis of a one-dimension grid.

The area and zoom scan resolutions specified in KDB 865664 are in table below.

Description		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°
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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
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 reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

7 OUTPUT POWER MEASUREMENTS

7.1 LTE BAND 4

Band: 4												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1720	1732.5	1745				1720	1732.5	1745
20 MHz	QPSK	1	0	21.94	22.26	22.60	16QAM	1	0	21.80	21.81	21.23
			50	22.29	22.40	22.10			50	22.36	22.30	20.91
			99	22.05	21.81	21.87			99	21.88	21.87	20.32
		50	0	21.01	21.10	21.17		12	0	21.14	20.90	21.19
			25	21.01	21.23	20.83			44	20.80	21.03	20.79
			50	20.96	21.05	20.78			88	20.89	20.65	20.64
		100	0	20.92	20.98	20.89		27	0	20.11	20.17	19.67
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1717.5	1732.5	1747.5				1717.5	1732.5	1747.5
15 MHz	QPSK	1	0	21.92	22.09	22.44	16QAM	1	0	21.42	21.28	21.68
			38	21.90	22.06	22.04			38	21.16	21.26	22.05
			74	21.95	21.90	22.10			74	21.33	20.94	21.53
		36	0	20.91	21.11	21.05		12	0	20.96	21.07	20.93
			18	20.91	21.06	20.99			31	20.96	21.22	20.93
			39	20.82	21.00	20.94			63	20.80	20.91	20.64
		75	0	20.89	20.99	20.96		27	0	19.83	20.28	19.94
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1715	1732.5	1750				1715	1732.5	1750
10 MHz	QPSK	1	0	21.92	22.03	22.29	16QAM	1	0	21.52	21.74	20.65
			25	22.07	22.44	22.37			25	22.03	21.57	20.79
			49	21.89	21.84	22.08			49	21.14	21.50	20.55
		25	0	20.99	21.13	20.87		12	0	20.90	21.25	20.76
			13	21.05	21.12	20.89			19	20.98	21.11	20.76
			25	20.94	21.06	20.73			38	20.82	20.80	20.70
		50	0	20.97	21.15	20.79		27	0	20.01	20.22	19.63
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1712.5	1732.5	1752.5				1712.5	1732.5	1752.5
5 MHz	QPSK	1	0	21.84	21.85	21.76	16QAM	1	0	20.54	20.83	20.70
			13	21.81	21.97	21.77			13	20.59	21.66	20.62
			24	21.90	22.02	21.84			24	20.45	21.53	21.14
		12	0	20.93	21.12	20.79		12	0	19.87	20.01	19.66
			6	20.99	21.07	20.80			6	19.95	20.22	19.81
			13	20.91	21.08	20.85			13	19.97	19.90	19.95
		25	0	20.88	21.11	20.76		25	0	19.94	20.12	19.81
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1711.5	1732.5	1753.5				1711.5	1732.5	1753.5
3 MHz	QPSK	1	0	22.25	22.07	21.71	16QAM	1	0	21.38	21.54	20.53
			7	22.22	22.26	22.14			7	21.55	21.82	20.62
			14	22.10	22.03	21.72			14	21.43	21.28	20.45
		8	0	21.08	21.21	20.76		8	0	19.96	20.20	19.50
			4	20.98	21.16	20.63			4	20.23	20.07	19.79
			7	21.02	21.12	20.75			7	20.18	20.11	19.90
		15	0	20.96	21.13	20.73		15	0	20.22	20.03	19.64
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1710.7	1732.5	1754.3				1710.7	1732.5	1754.3
1.4 MHz	QPSK	1	0	22.45	22.54	22.06	16QAM	1	0	21.35	21.44	21.47
			2	22.51	22.38	21.94			2	21.44	21.47	21.48
			5	22.50	22.35	21.86			5	21.37	21.31	21.10
		3	0	22.28	22.25	21.85		3	0	21.26	21.44	20.78
			2	22.37	22.28	21.85			2	21.34	21.40	20.88
			3	22.31	22.23	21.90			3	21.29	21.11	20.66
		6	0	21.33	21.31	20.89		6	0	20.03	20.39	19.81

7.2 LTE BAND 7

Band: 7												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				2510	2535	2560				2510	2535	2560
20 MHz	QPSK	1	0	22.32	21.80	21.88	16QAM	1	0	22.04	20.34	20.17
			50	22.42	21.93	21.84			50	22.22	20.68	20.31
			99	21.86	21.48	21.68			99	21.80	19.50	19.92
		50	0	21.41	20.53	20.45		12	0	20.93	20.14	20.06
			25	21.24	20.69	20.57			44	20.94	20.46	20.17
			50	21.11	20.41	20.36			88	20.56	19.87	19.91
		100	0	21.09	20.30	20.38		27	0	20.15	19.31	18.93
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				2507.5	2535	2562.5				2507.5	2535	2562.5
15 MHz	QPSK	1	0	21.29	22.05	21.61	16QAM	1	0	20.55	20.56	21.17
			38	21.06	21.83	21.74			38	20.51	21.09	20.79
			74	20.98	21.57	21.54			74	20.22	21.22	20.95
		36	0	20.20	21.13	20.72		12	0	20.14	20.54	19.93
			18	20.08	21.00	20.81			31	20.10	20.70	20.52
			39	19.93	20.84	20.49			63	19.93	20.29	19.93
		75	0	19.96	20.85	20.59		27	0	19.09	19.69	19.04
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				2505	2535	2565				2505	2535	2565
10 MHz	QPSK	1	0	21.50	21.02	20.94	16QAM	1	0	20.36	20.28	19.77
			25	21.57	21.25	20.79			25	20.83	20.73	19.66
			49	21.10	20.65	20.58			49	20.32	20.31	19.38
		25	0	20.47	20.14	19.73		12	0	20.56	20.11	19.86
			13	20.57	20.13	19.72			19	20.55	20.03	19.82
			25	20.30	19.91	19.72			38	20.06	19.95	19.42
		50	0	20.48	20.00	19.71		27	0	19.38	19.12	18.65
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				2502.5	2535	2567.5				2502.5	2535	2567.5
5 MHz	QPSK	1	0	22.21	21.50	20.76	16QAM	1	0	20.70	20.63	19.80
			13	22.29	21.38	20.93			13	20.71	20.87	19.68
			24	22.16	21.25	20.59			24	20.84	20.78	19.49
		12	0	21.40	20.71	19.84		12	0	20.24	19.52	18.68
			6	21.33	20.70	19.90			6	20.28	19.62	18.54
			13	21.39	20.59	19.83			13	20.26	19.36	18.50
		25	0	21.27	20.51	19.84		25	0	20.10	19.56	18.67

7.3 LTE BAND 12

Band: 12												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				704	707.5	711				704	707.5	711
10 MHz	QPSK	1	0	22.25	22.13	22.38	16QAM	1	0	21.69	21.39	21.13
			25	22.08	22.50	22.59			25	21.19	21.80	21.79
			49	22.11	22.14	22.16			49	21.05	21.66	21.06
		25	0	21.06	21.13	21.25		12	0	21.10	20.89	21.36
			13	21.03	21.21	21.36			19	21.10	21.24	21.49
			25	21.18	21.25	21.29			38	21.28	21.24	21.34
		50	0	21.10	21.14	21.22		27	0	20.18	20.30	20.32
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				701.5	707.5	713.5				701.5	707.5	713.5
5 MHz	QPSK	1	0	22.10	21.92	22.21	16QAM	1	0	20.92	21.48	21.05
			13	22.06	22.36	22.40			13	21.19	21.96	21.41
			24	22.07	22.21	22.11			24	20.51	21.90	21.16
		12	0	21.26	21.14	21.23		12	0	20.32	20.11	20.25
			6	21.20	21.43	21.27			6	20.34	20.33	20.29
			13	21.01	21.28	21.27			13	20.15	20.27	20.23
		25	0	21.27	21.11	21.30		25	0	20.35	20.32	20.37
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				700.5	707.5	714.5				700.5	707.5	714.5
3 MHz	QPSK	1	0	22.24	22.21	22.35	16QAM	1	0	21.70	21.68	21.40
			7	22.42	22.36	22.71			7	21.72	21.60	21.66
			14	22.14	22.25	22.16			14	21.34	21.58	21.48
		8	0	21.28	21.35	21.44		8	0	20.72	20.25	20.45
			4	21.20	21.45	21.41			4	20.49	20.30	20.34
			7	21.12	21.44	21.46			7	20.42	20.45	20.65
		15	0	21.26	21.35	21.36		15	0	20.18	20.29	20.44
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				699.7	707.5	715.3				699.7	707.5	715.3
1.4 MHz	QPSK	1	0	22.33	22.51	22.35	16QAM	1	0	21.13	21.53	21.88
			2	22.63	22.46	22.50			2	21.88	21.66	21.93
			5	22.46	22.45	22.15			5	21.47	21.68	21.86
		3	0	22.33	22.35	22.48		3	0	21.81	21.25	21.70
			2	22.33	22.52	22.39			2	21.58	21.46	21.47
			3	22.26	22.35	22.32			3	21.51	21.47	21.65
		6	0	21.33	21.34	21.36		6	0	20.67	20.31	20.50

7.4 LTE BAND 13

Band: 13												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				-	782	-				-	782	-
10 MHz	QPSK	1	0	-	22.14	-	16QAM	1	0	-	21.41	-
			25	-	22.22	-			25	-	21.69	-
			49	-	22.02	-			49	-	21.31	-
		25	0	-	21.11	-		12	0	-	21.06	-
			13	-	21.05	-			19	-	21.22	-
			25	-	20.90	-			38	-	20.94	-
		50	0	-	21.11	-		27	0	-	20.01	-
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				779.5	782	784.5				779.5	782	784.5
5 MHz	QPSK	1	0	22.05	21.84	22.05	16QAM	1	0	20.78	20.81	20.86
			13	21.98	21.96	22.17			13	20.63	21.58	21.01
			24	22.10	21.89	22.28			24	20.88	21.34	21.19
		12	0	21.06	21.05	20.91		12	0	20.03	20.19	20.11
			6	21.05	21.07	20.95			6	20.19	20.05	20.15
			13	21.04	20.96	20.98			13	20.16	19.79	20.19
		25	0	21.11	21.05	21.00		25	0	20.29	20.00	19.98

7.5 LTE BAND 14

Band: 14												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				-	793	-				-	793	-
10 MHz	QPSK	1	0	-	22.33	-	16QAM	1	0	-	21.50	-
			25	-	22.14	-			25	-	21.74	-
			49	-	22.25	-			49	-	21.30	-
		25	0	-	21.25	-		12	0	-	21.39	-
			13	-	21.14	-			19	-	21.33	-
			25	-	21.12	-			38	-	21.39	-
		50	0	-	21.26	-		27	0	-	20.34	-
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				790.5	793	795.5				790.5	793	795.5
5 MHz	QPSK	1	0	22.24	22.18	22.02	16QAM	1	0	20.69	21.66	21.04
			13	22.18	22.27	22.38			13	20.65	21.89	21.22
			24	22.17	22.04	22.30			24	20.93	21.68	21.81
		12	0	21.40	21.37	21.16		12	0	20.31	20.20	20.22
			6	21.39	21.23	21.25			6	20.37	20.22	20.42
			13	21.27	21.26	21.31			13	20.27	20.28	20.38
		25	0	21.38	21.36	21.26		25	0	20.43	20.32	20.19

7.6 LTE BAND 25

Band: 25												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1860	1882.5	1905				1860	1882.5	1905
20 MHz	QPSK	1	0	22.73	22.72	22.78	16QAM	1	0	21.59	21.37	21.62
			50	22.93	22.87	22.95			50	21.82	21.55	21.70
			99	22.59	22.36	22.98			99	20.85	20.90	21.27
		50	0	21.72	21.49	21.64		12	0	21.61	21.32	21.83
			25	21.68	21.64	21.80			44	21.66	21.47	21.55
			50	21.58	21.55	21.66			88	21.33	21.15	21.68
		100	0	21.56	21.48	21.51			27	0	20.58	20.35
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1857.5	1882.5	1907.5				1857.5	1882.5	1907.5
15 MHz	QPSK	1	0	22.10	22.31	22.38	16QAM	1	0	21.63	21.66	21.96
			38	21.98	22.25	22.40			38	21.51	21.57	22.24
			74	22.08	22.22	22.34			74	21.51	20.96	21.76
		36	0	21.08	21.22	21.20		12	0	21.18	21.05	21.12
			18	21.06	21.20	21.26			31	21.19	21.22	21.24
			39	21.15	21.14	21.15			63	21.16	21.09	20.99
		75	0	21.07	21.10	21.12			27	0	20.03	20.13
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1855	1882.5	1910				1855	1882.5	1910
10 MHz	QPSK	1	0	22.12	22.15	22.30	16QAM	1	0	21.76	21.73	21.04
			25	22.21	22.43	22.48			25	21.76	22.34	21.30
			49	22.01	22.09	22.25			49	21.56	21.64	20.99
		25	0	21.04	21.12	21.02		12	0	21.12	20.86	21.10
			13	21.09	21.18	21.12			19	21.21	21.34	21.13
			25	21.03	21.16	21.15			38	21.00	21.09	21.06
		50	0	21.05	21.17	21.02			27	0	20.08	20.15
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1852.5	1882.5	1912.5				1852.5	1882.5	1912.5
5 MHz	QPSK	1	0	21.93	22.15	22.17	16QAM	1	0	20.79	21.4	21.05
			13	21.99	22.12	22.09			13	21.09	21.66	21.14
			24	21.99	22.10	22.19			24	21.11	21.71	21.14
		12	0	21.01	21.17	21.00		12	0	20.06	20.15	20.14
			6	21.12	21.26	21.12			6	20.18	20.17	20.19
			13	21.09	21.20	21.15			13	20.13	20.2	20.1
		25	0	21.01	21.14	21.22			25	0	20.08	20.17
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1851.5	1882.5	1913.5				1851.5	1882.5	1913.5
3 MHz	QPSK	1	0	22.16	22.03	22.24	16QAM	1	0	21.51	21.68	21.26
			7	22.30	22.35	22.42			7	21.58	21.53	20.87
			14	22.02	22.02	22.40			14	21.60	21.59	21.06
		8	0	21.04	21.12	21.19		8	0	20.23	20.33	20.23
			4	21.03	21.18	21.22			4	20.14	20.32	20.14
			7	21.05	21.15	21.21			7	20.07	20.11	20.11
		15	0	21.10	21.14	21.24			15	0	20.13	20.18
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				1850.7	1882.5	1914.3				1850.7	1882.5	1914.3
1.4 MHz	QPSK	1	0	22.05	22.04	22.13	16QAM	1	0	21.58	20.98	21.17
			2	22.00	22.20	22.15			2	21.76	21.52	21.31
			5	21.93	22.13	22.17			5	21.75	21.49	21.15
		3	0	21.96	22.29	22.14		3	0	21.05	21.23	20.86
			2	22.11	22.34	22.24			2	21.14	21.27	21.06
			3	22.07	22.21	22.07			3	21.11	21.32	20.95
		6	0	21.07	21.24	20.97		6	0	20.10	20.13	20.10

7.7 LTE BAND 26

Band: 26												
BW	Modulation	RB Allocation		Conducted Power (dBm)			Modulation	RB Allocation		Conducted Power (dBm)		
		Size	Offset	LCH	MCH	HCH		Size	Offset	LCH	MCH	HCH
				821.5	831.5	841.5				821.5	831.5	841.5
15 MHz	QPSK	1	0	22.33	22.11	22.75	16QAM	1	0	21.50	21.42	22.26
			38	22.45	22.46	22.67			38	21.64	21.83	21.93
			74	22.17	22.14	22.36			74	20.98	21.63	22.06
		36	0	21.47	21.43	21.74		12	0	21.17	21.15	21.42
			18	21.53	21.47	21.81			31	21.54	21.41	21.53
			39	21.45	21.38	21.49			63	21.36	21.32	21.21
		75	0	21.48	21.37	21.48		27	0	20.28	20.24	20.56

7.8 WLAN BAND 2.4GHZ

Test Mode	Channel	Frequency (MHz)	Meas. Power (dBm)	Rated Max Power (dBm)
802.11 b	1	2412	14.02	14.5
	6	2437	13.02	14.5
	11	2462	11.46	14.5
802.11 g	1	2412	11.36	16.5
	6	2437	15.98	16.5
	11	2462	8.64	16.5
802.11 n	1	2412	10.52	16.5
	6	2437	15.81	16.5
	11	2462	7.61	16.5
BLE 1Mbps	1	2402	12.62	13
	19	2440	12.37	13
	39	2480	7.53	13
BLE 2Mbps	1	2402	12.1	13
	19	2440	11.96	13
	39	2480	6.94	13

7.9 WLAN BAND 5GHz

Test Mode	Channel	Frequency (MHz)	Meas. Power (dBm)	Rated Max Power (dBm)
802.11 a UNII-1	36	5180	9.66	11.5
	40	5200	10.04	11.5
	44	5220	9.72	11.5
	48	5240	9.95	11.5
802.11 a UNII-2A	52	5260	10.7	12
	56	5280	11.02	12
	60	5300	11.24	12
	64	5320	11.36	12
802.11 a UNII-2C	100	5500	11.06	12.5
	104	5520	11.24	12.5
	108	5540	10.71	12.5
	112	5560	10.59	12.5
	116	5580	11.05	12.5
	132	5660	11.16	12.5
	136	5680	11.49	12.5
	140	5700	12.19	12.5
802.11 a UNII-3	149	5745	6.88	8.5
	153	5765	6.91	8.5
	157	5785	7.09	8.5
	161	5805	7.51	8.5
	165	5825	7.69	8.5
802.11 n UNII-1	36	5180	10.67	11.5
	40	5200	9.92	11.5
	44	5220	10.93	11.5
	48	5240	10.99	11.5
802.11 n UNII-2A	52	5260	10.99	12
	56	5280	11.14	12
	60	5300	11.57	12
	64	5320	11.68	12
802.11 n UNII-2C	100	5500	11.31	12.5
	104	5520	11.4	12.5
	108	5540	10.86	12.5
	112	5560	11.43	12.5
	116	5580	11.36	12.5
	132	5660	11.43	12.5
	136	5680	11.76	12.5
	140	5700	12.17	12.5
802.11 n UNII-3	149	5745	7.02	8.5
	153	5765	6.95	8.5
	157	5785	7.15	8.5
	161	5805	7.51	8.5
	165	5825	7.63	8.5

Additional channel bandwidths did not require SAR measurements per SAR test reduction procedure.

8 SAR RESULTS

SAR test reduction thresholds applied from KDBs are scaled accordingly to account for extremity limits. This methodology is same used from KDB 447498 appendix A note.

Scaled SAR results include scaling up to maximum tune-up tolerance and negative drift.

LTE SAR Test Reduction Procedure:

KDB 941225 D05 SAR for LTE Devices:

Section 4.1 note 3 - For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M, and L channels may not fully apply.

Section 5.2.1 - Start with the largest channel bandwidth then 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 offsets at the upper edge, middle, and lower edge of each required test channel. When the reported SAR is $\leq 50\%$ of applied limit, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is $> 90\%$ of applied limit, SAR is required for all three RB offset configurations for that required test channel.

Section 5.2.2 - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

Section 5.2.3 - 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 in 5.2.1 and 5.2.2 are $\leq 50\%$ of limit. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $> 90\%$ of limit, the remaining required test channels must also be tested.

Section 5.2.4 - For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR 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 $> 90\%$ of limit.

WLAN SAR Test Reduction Procedure:

KDB 248227 D01 802.11 WiFi SAR:

KDB Section 5.1.1 Initial Test Position SAR Test Reduction Procedure

a) When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).

b) When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.

c) For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested

Section 5.2.1 802.11b DSSS SAR Test Requirements SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

a) When the reported SAR of the highest measured maximum output power channel (see 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

b) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

5.3.2 OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures (see Clause 4)

8.1 WLAN 2.4GHz

Test Mode	Channel	Frequency (MHz)	Duty Cycle (%)	Max Power (dBm)	Meas. Power (dBm)	Power Scaling factor	Drift (dB)	Drift Scaling factor	Meas. SAR 1g	Meas. SAR 10g	Scaled SAR 1g	Scaled SAR 10g	Plot
802.11b	1	2412	100	14.5	14.02	1.12	-0.68	1.17	0.07	0.04	0.10	0.05	1
802.11g	6	2437	100	16.5	15.98	1.13	-1.0	1.26	0.08	0.04	0.11	0.06	2

8.2 WLAN 5GHz

Test Mode	Channel	Frequency (MHz)	Duty Cycle (%)	Max Power (dBm)	Meas. Power (dBm)	Power Scaling factor	Drift (dB)	Drift Scaling factor	Meas. SAR 1g	Meas. SAR 10g	Scaled SAR 1g	Scaled SAR 10g	Plot
802.11a UNII-1	40	5200	100	11.5	10.04	1.40	-0.08	1.02	0.03	0.01	0.05	0.02	3
802.11a UNII-2A	64	5320	100	12.0	11.36	1.16	-1.15	1.30	0.04	0.01	0.07	0.02	4
802.11a UNII-2C	140	5700	100	12.5	12.19	1.07	0.07	1.00	0.08	0.03	0.09	0.03	5
802.11a UNII-3	165	5825	100	8.5	7.69	1.21	-0.58	1.06	0.04	0.01	0.05	0.02	6

8.3 BLUETOOTH LOW ENERGY

Test Mode	Channel	Frequency (MHz)	Duty Cycle (%)	Max Power (dBm)	Meas. Power (dBm)	Power Scaling factor	Drift (dB)	Drift Scaling factor	Meas. SAR 1g	Meas. SAR 10g	Scaled SAR 1g	Scaled SAR 10g	Plot
BLE: 1Mbps	1	2402	100	13	12.62	1.09	-0.58	1.14	0.08	0.05	0.10	0.06	7

8.4 LTE

Test Mode	Channel	Frequency (MHz)	Bandwidth (MHz)	RB Allocation (%)	RB Offset	Duty Cycle (%)	Max Power (dBm)	Meas. Power (dBm)	Power Scaling factor	Drift (dB)	Drift Scaling factor	Meas. SAR 1g	Meas. SAR 10g	Scaled SAR 1g	Scaled SAR 10g	Plot
Band 12	23130	711	10	1	25	100	23	22.59	1.10	-0.39	1.09	0.64	0.43	0.77	0.51	
				50	13	100	23	21.36	1.46	-0.50	1.12	0.56	0.37	0.92	0.61	8
Band 13	23230	782	10	1	25	100	23	22.22	1.20	-0.75	1.19	0.79	0.54	1.12	0.77	9
				50	0	100	23	21.11	1.55	-0.41	1.10	0.61	0.42	1.03	0.70	
Band 14	23330	793	10	1	0	100	23	22.33	1.17	-0.25	1.06	0.76	0.52	0.94	0.64	
				50	0	100	23	21.25	1.50	-0.60	1.15	0.57	0.39	0.98	0.68	10
Band 26	26965	841.5	15	1	0	100	23	22.75	1.06	-0.64	1.16	0.65	0.45	0.80	0.56	11
				50	18	100	23	21.81	1.32	-0.54	1.13	0.46	0.33	0.69	0.48	
Band 4	20300	1745	20	1	0	100	23	22.6	1.10	-0.43	1.10	0.34	0.20	0.41	0.24	
	20175	1732.5	20	50	25	100	23	21.23	1.50	-0.44	1.11	0.33	0.20	0.54	0.33	12
Band 25	26590	1905	20	1	99	100	23	22.98	1.00	-0.90	1.23	0.47	0.28	0.59	0.35	
				50	25	100	23	21.8	1.32	-0.77	1.19	0.40	0.24	0.63	0.38	13
Band 7	20850	2510	20	1	50	100	23	22.42	1.14	-0.96	1.25	0.92	0.46	1.31	0.66	14
				50	0	100	23	21.41	1.44	-0.83	1.21	0.69	0.35	1.20	0.61	

9 VARIABILITY ASSESSMENT

Per the guidelines in KDB 865664 SAR variability assessment is not required because SAR results are below 50% threshold of applicable limit.

10 SIMULTANEOUS TRANSMISSION

This device support simultaneous of one LTE band and one WLAN band.

10.1 DIRECT SUMMATION

Transmitter	Highest SAR	Highest Summation
LTE Band 13	0.77	0.77
WLAN 2.4GHz	0.06	0.06
WLAN 5GHz	0.03	

Total 0.83

11 SYSTEM UNCERTAINTY

A System uncertainty analysis per KDB 865664 is not required since reported SAR is < 93.75% of applicable limit.

Per guidelines of ISO 17025 reported system uncertainty is required and therefore included in Appendix D.

APPENDIX A – PHOTOS OF EUT AND TEST POSITION(S)

EUT Standalone



Front of EUT

Back of EUT



Rightside of EUT

Leftside of EUT



EUT with secure strap



EUT with flex strap

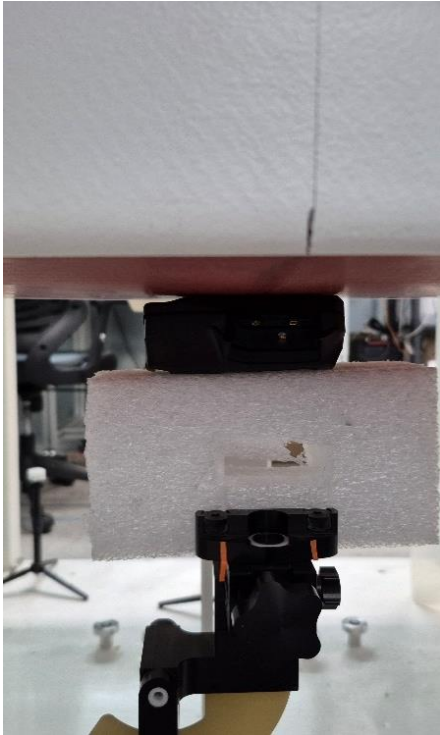
Antenna locations

Multi-band LTE Antenna

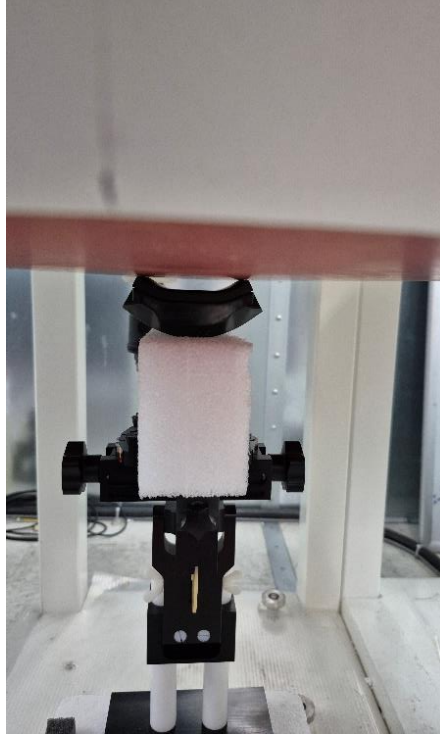


WLAN 2.4GHz/5GHz
Antenna

EUT Test Position



Side view of EUT against flat area of phantom with 0mm spacing



Top view of EUT against flat area of phantom with 0mm spacing

APPENDIX B – SAR DATA

Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/7/2025 2:51:09 PM

Plot #1

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz;
- Probe: EX3DV4 - SN3812; ConvF(6.71, 7.06, 6.69) @ 2412 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2412$ MHz; $\sigma = 1.718$ S/m; $\epsilon_r = 38.433$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2-3GHz Body/Body Scan/Area Scan (81x121x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 4.011 V/m; Power Drift = -0.68 dB

Fast SAR: SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.037 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.100 W/kg

2-3GHz Body/Body Scan/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 4.011 V/m; Power Drift = -0.68 dB

Peak SAR (extrapolated) = 0.118 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.042 W/kg (SAR corrected for target medium)

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

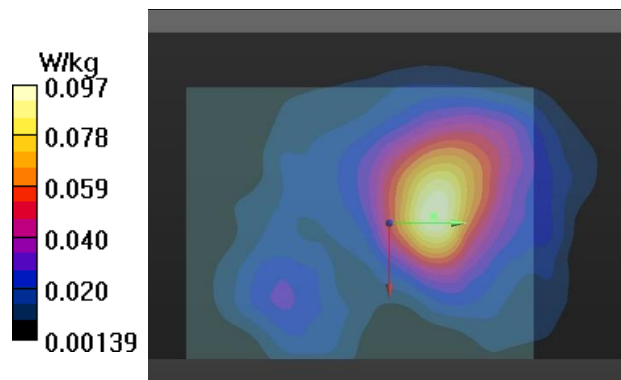
Ratio of SAR at M2 to SAR at M1 = 62.5%

Maximum value of SAR (measured) = 0.0969 W/kg

2-3GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.0967 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/7/2025 3:33:01 PM

Plot #2

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10013 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps); Frequency: 2437 MHz;
- Probe: EX3DV4 - SN3812; ConvF(6.71, 7.06, 6.69) @ 2437 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2437$ MHz; $\sigma = 1.736$ S/m; $\epsilon_r = 38.397$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2-3GHz Body/Body Scan/Area Scan (81x121x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 4.157 V/m; Power Drift = -1.00 dB

Fast SAR: SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.042 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.111 W/kg

2-3GHz Body/Body Scan/Zoom Scan (8x8x7)/Cube 0:

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

Reference Value = 4.157 V/m; Power Drift = -1.00 dB

Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.044 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 13.2 mm

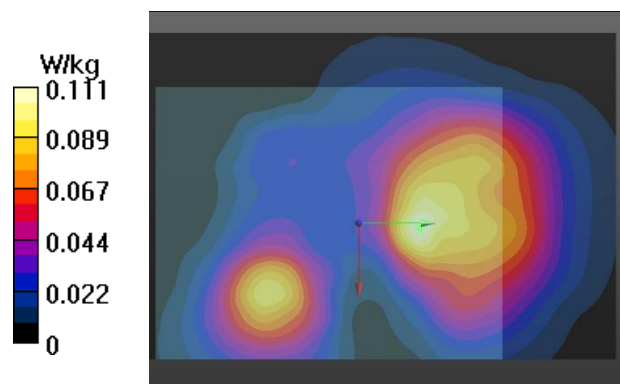
Ratio of SAR at M2 to SAR at M1 = 62.9%

Maximum value of SAR (measured) = 0.102 W/kg

2-3GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.0949 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/7/2025 11:23:02 AM

Plot #3

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10062 - CAC, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5200 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.82, 5.07, 4.81) @ 5200 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5200$ MHz; $\sigma = 4.249$ S/m; $\epsilon_r = 34.241$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

4-6GHz Body/Body Scan/Area Scan (101x151x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm

Reference Value = 4.091 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.015 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0895 W/kg

4-6GHz Body/Body Scan/Zoom Scan (10x11x12)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.091 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.011 W/kg (SAR corrected for target medium)

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

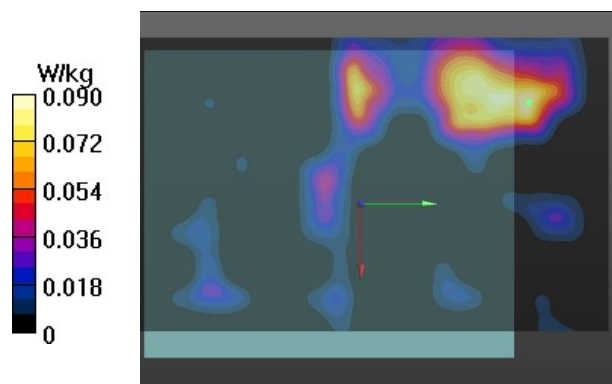
Ratio of SAR at M2 to SAR at M1 = 62.6%

Maximum value of SAR (measured) = 0.0818 W/kg

4-6GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.0727 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/7/2025 12:36:40 PM

Plot #4

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10062 - CAC, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5320 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.73, 4.98, 4.71) @ 5320 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5320$ MHz; $\sigma = 4.373$ S/m; $\epsilon_r = 34.128$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

4-6GHz Body/Body Scan/Area Scan (101x151x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm

Reference Value = 5.760 V/m; Power Drift = -1.15 dB

Fast SAR: SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.021 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.146 W/kg

4-6GHz Body/Body Scan/Zoom Scan (10x12x12)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.760 V/m; Power Drift = -1.15 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.015 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 6.4 mm

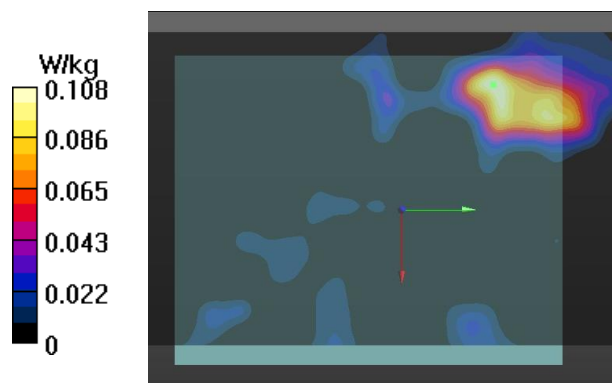
Ratio of SAR at M2 to SAR at M1 = 55.4%

Maximum value of SAR (measured) = 0.111 W/kg

4-6GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

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



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/6/2025 9:54:17 AM

Plot #5

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10062 - CAC, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5700 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.7, 4.95, 4.69) @ 5700 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5700$ MHz; $\sigma = 4.835$ S/m; $\epsilon_r = 33.707$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

4-6GHz Body/Body Scan/Area Scan (101x151x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm

Reference Value = 6.163 V/m; Power Drift = 0.07 dB

Fast SAR: SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.024 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.163 W/kg

4-6GHz Body/Body Scan/Zoom Scan (9x9x12)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.163 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.026 W/kg (SAR corrected for target medium)

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

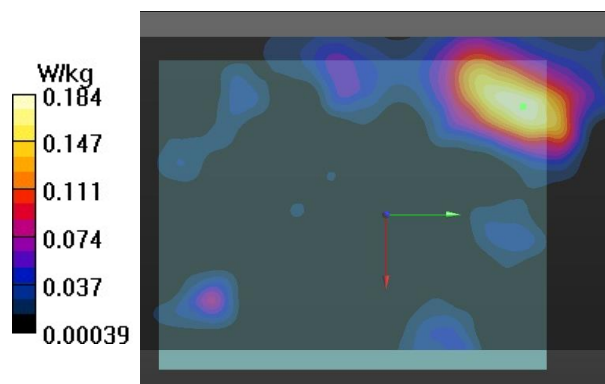
Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 0.190 W/kg

4-6GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.184 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/6/2025 2:29:49 PM

Plot #6

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10062 - CAC, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps); Frequency: 5825 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.66, 4.9, 4.65) @ 5825 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5825$ MHz; $\sigma = 4.988$ S/m; $\epsilon_r = 33.507$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

4-6GHz Body/Body Scan/Area Scan (101x151x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm

Reference Value = 5.239 V/m; Power Drift = -0.58 dB

Fast SAR: SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.018 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.136 W/kg

4-6GHz Body/Body Scan/Zoom Scan (10x9x12)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.239 V/m; Power Drift = -0.58 dB

Peak SAR (extrapolated) = 0.214 W/kg

SAR(1 g) = 0.045 W/kg; SAR(10 g) = 0.015 W/kg (SAR corrected for target medium)

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

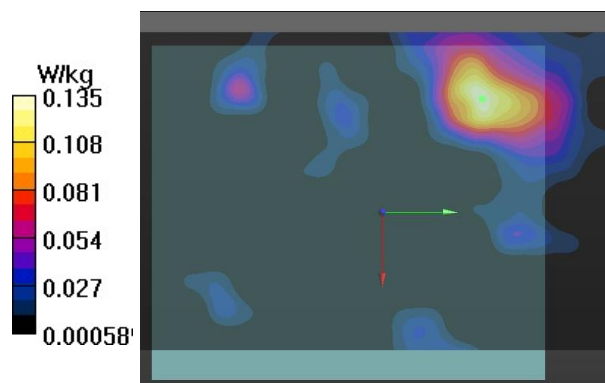
Ratio of SAR at M2 to SAR at M1 = 43.9%

Maximum value of SAR (measured) = 0.129 W/kg

4-6GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.135 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/9/2025 9:57:59 AM

Plot #7

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10030 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH1); Frequency: 2402 MHz;
- Probe: EX3DV4 - SN3812; ConvF(6.71, 7.06, 6.69) @ 2402 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2402$ MHz; $\sigma = 1.722$ S/m; $\epsilon_r = 38.444$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2-3GHz Body/Body Scan/Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 3.830 V/m; Power Drift = -0.58 dB

Fast SAR: SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.041 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.113 W/kg

2-3GHz Body/Body Scan/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.830 V/m; Power Drift = -0.58 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.045 W/kg (SAR corrected for target medium)

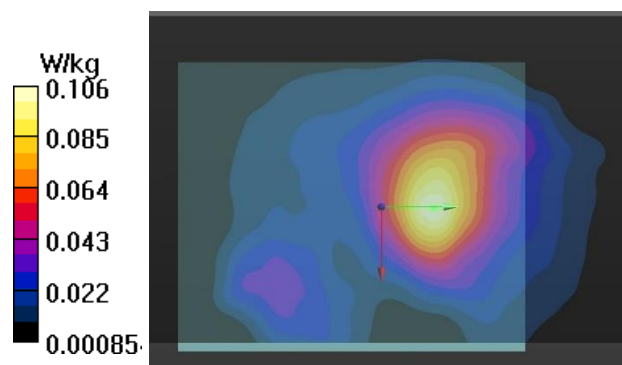
Smallest distance from peaks to all points 3 dB below = 14.1 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 0.106 W/kg

2-3GHz Body/Body Scan/Z- Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.106 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/9/2025 12:21:55 PM

Plot #8

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10154 - CAG, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 711 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.66, 5.69, 5.78) @ 711 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 711$ MHz; $\sigma = 0.847$ S/m; $\epsilon_r = 40.831$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Below 2GHz Body/Body Scan/Area Scan (81x101x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 22.51 V/m; Power Drift = -0.50 dB

Fast SAR: SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.391 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.638 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 22.51 V/m; Power Drift = -0.50 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.370 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 20.2 mm

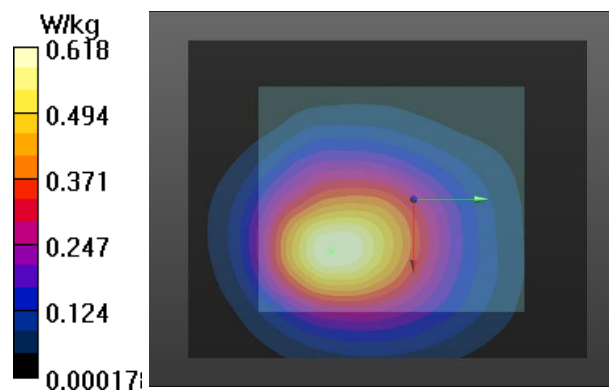
Ratio of SAR at M2 to SAR at M1 = 66.6%

Maximum value of SAR (measured) = 0.638 W/kg

Below 2GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.618 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/9/2025 12:53:00 PM

Plot #9

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.66, 5.69, 5.78) @ 782 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 782$ MHz; $\sigma = 0.869$ S/m; $\epsilon_r = 40.594$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Below 2GHz Body/Body Scan/Area Scan (81x101x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 30.83 V/m; Power Drift = -0.75 dB

Fast SAR: SAR(1 g) = 0.826 W/kg; SAR(10 g) = 0.567 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.923 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 30.83 V/m; Power Drift = -0.75 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.790 W/kg; SAR(10 g) = 0.543 W/kg (SAR corrected for target medium)

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

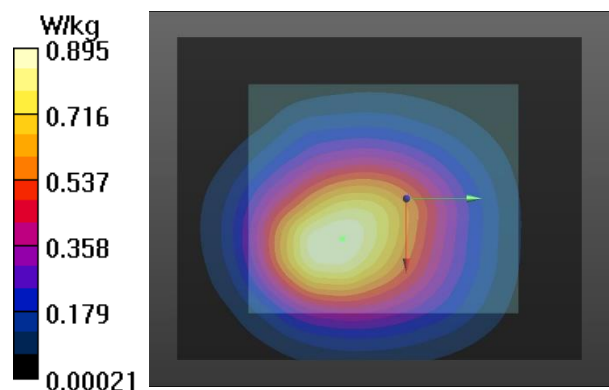
Ratio of SAR at M2 to SAR at M1 = 72.7%

Maximum value of SAR (measured) = 0.881 W/kg

Below 2GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.895 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/9/2025 2:46:57 PM

Plot #10

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10154 - CAG, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 793 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.66, 5.69, 5.78) @ 793 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 793$ MHz; $\sigma = 0.873$ S/m; $\epsilon_r = 40.559$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Below 2GHz Body/Body Scan/Area Scan (81x101x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 24.42 V/m; Power Drift = -0.60 dB

Fast SAR: SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.414 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.679 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 24.42 V/m; Power Drift = -0.60 dB

Peak SAR (extrapolated) = 0.790 W/kg

SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.393 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 23.3 mm

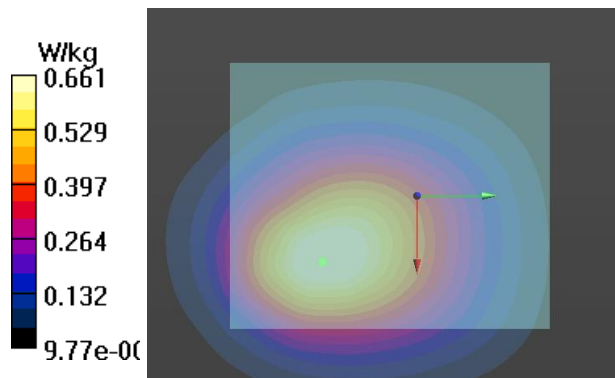
Ratio of SAR at M2 to SAR at M1 = 69.8%

Maximum value of SAR (measured) = 0.646 W/kg

Below 2GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.661 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/10/2025 1:25:18 PM

Plot #11

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10311 - AAD, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK); Frequency: 841.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.46, 5.49, 5.57) @ 841.5 MHz; Calibrated: 1/30/2025
- Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 0.894$ S/m; $\epsilon_r = 40.47$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Below 2GHz Body/Body Scan/Area Scan (81x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.33 V/m; Power Drift = -0.64 dB

Fast SAR: SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.451 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.736 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.33 V/m; Power Drift = -0.64 dB

Peak SAR (extrapolated) = 0.881 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.454 W/kg (SAR corrected for target medium)

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

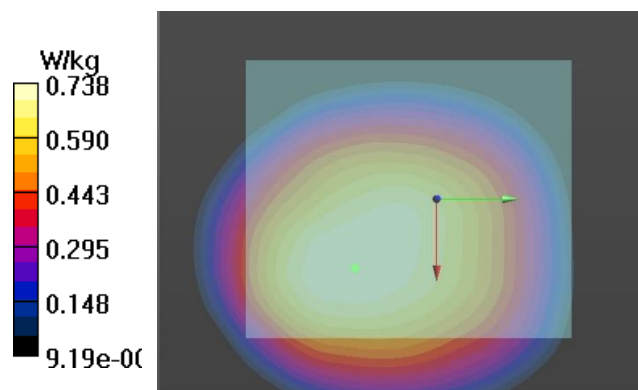
Ratio of SAR at M2 to SAR at M1 = 71.8%

Maximum value of SAR (measured) = 0.725 W/kg

Below 2GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.738 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/10/2025 10:44:42 AM

Plot #12

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10297 - AAD, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 1732.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.86, 4.89, 4.96) @ 1732.5 MHz; Calibrated: 1/30/2025
- Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.292$ S/m; $\epsilon_r = 38.676$; $\rho = 1000$ kg/m³ ; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Below 2GHz Body/Body Scan/Area Scan (81x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 8.984 V/m; Power Drift = -0.44 dB

Fast SAR: SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.194 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.379 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.984 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.197 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 14.8 mm

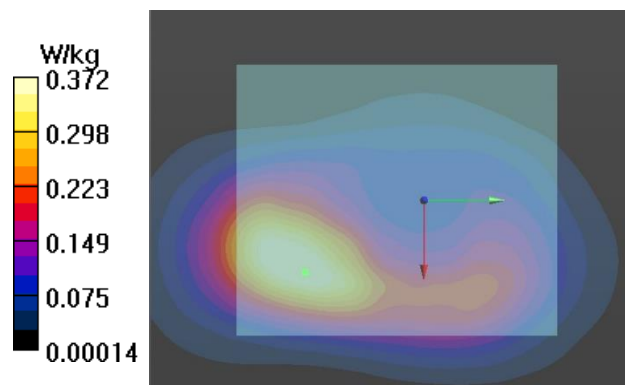
Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 0.378 W/kg

Below 2GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.372 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/10/2025 11:48:09 AM

Plot #13

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10297 - AAD, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 1905 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.81, 4.83, 4.9) @ 1905 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 1905$ MHz; $\sigma = 1.39$ S/m; $\epsilon_r = 38.411$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Below 2GHz Body/Body Scan/Area Scan (81x101x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 8.850 V/m; Power Drift = -0.77 dB

Fast SAR: SAR(1 g) = 0.425 W/kg; SAR(10 g) = 0.253 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.522 W/kg

Below 2GHz Body/Body Scan/Zoom Scan 2 (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 8.850 V/m; Power Drift = -0.77 dB

Peak SAR (extrapolated) = 0.656 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.240 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 16.2 mm

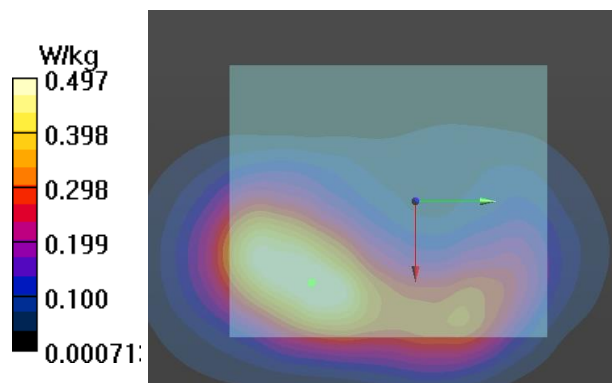
Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 0.491 W/kg

Below 2GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.497 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/11/2025 1:16:06 PM

Plot #14

DUT: Track Group OTD 5.0

DASY5 Configuration:

- Communication System: UID 10297 - AAD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2510 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.42, 4.44, 4.51) @ 2510 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2510$ MHz; $\sigma = 1.748$ S/m; $\epsilon_r = 36.324$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2-3GHz Body/Body Scan/Area Scan (101x111x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 18.27 V/m; Power Drift = -0.96 dB

Fast SAR: SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.329 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.847 W/kg

2-3GHz Body/Body Scan/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 17.70 V/m; Power Drift = -0.96 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.920 W/kg; SAR(10 g) = 0.464 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 12 mm

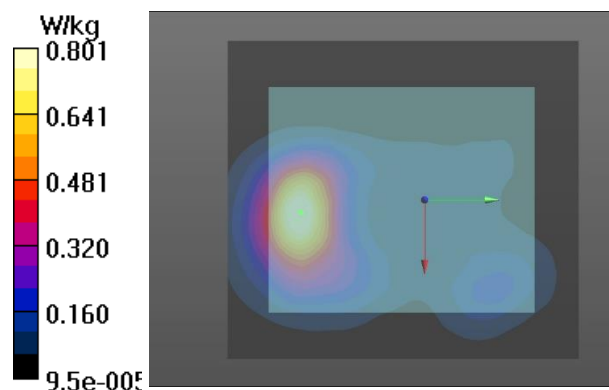
Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 1.17 W/kg

2-3GHz Body/Body Scan/Z- Axis Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.801 W/kg



APPENDIX C – SYSTEM VERIFICATION

Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/9/2025 9:35:43 AM

DUT: D750V3 - SN1074

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.66, 5.69, 5.78) @ 750 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 750$ MHz; $\sigma = 0.859$ S/m; $\epsilon_r = 40.699$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (31x121x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 72.76 V/m; Power Drift = -0.03 dB

Fast SAR: SAR(1 g) = 3.62 W/kg; SAR(10 g) = 2.42 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.08 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 72.76 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 5.01 W/kg

SAR(1 g) = 3.62 W/kg; SAR(10 g) = 2.41 W/kg (SAR corrected for target medium)

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

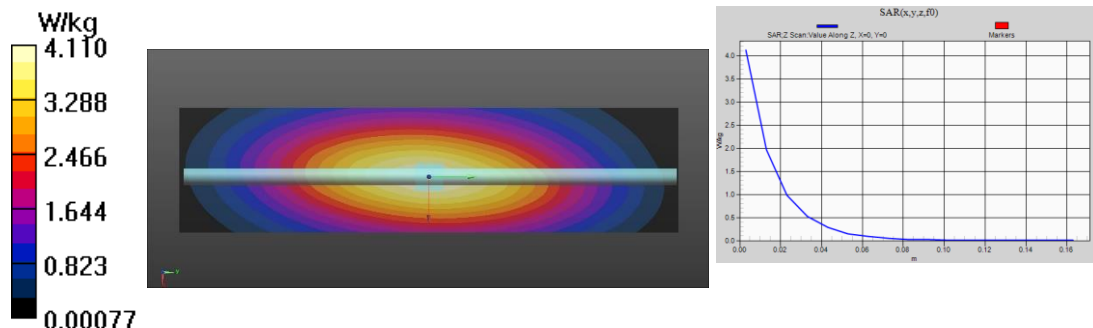
Ratio of SAR at M2 to SAR at M1 = 69.5%

Maximum value of SAR (measured) = 4.13 W/kg

System validation below 2GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 4.11 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/10/2025 8:50:44 AM

DUT: D1750V2 - SN1067

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.86, 4.89, 4.96) @ 1750 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 1750$ MHz; $\sigma = 1.302$ S/m; $\epsilon_r = 38.647$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (31x121x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 64.15 V/m; Power Drift = 0.01 dB

Fast SAR: SAR(1 g) = 3.96 W/kg; SAR(10 g) = 2.14 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.81 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 64.15 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 6.59 W/kg

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 2.12 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 10.5 mm

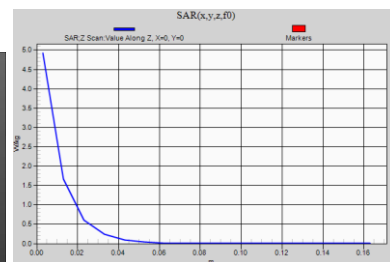
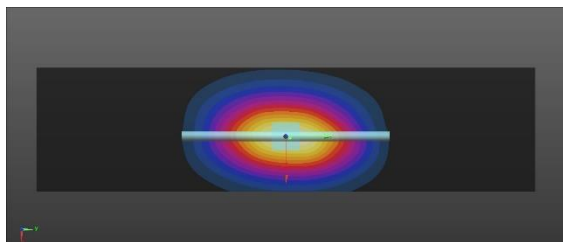
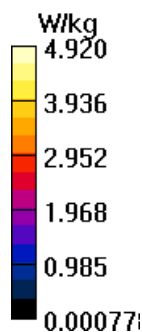
Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 4.92 W/kg

System validation below 2GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 4.92 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/10/2025 9:42:39 AM

DUT: D1900V2 - SN5d144

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1900 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.81, 4.83, 4.9) @ 1900 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 1900$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 38.418$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (31x121x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 61.94 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.07 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.92 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 61.94 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.02 W/kg

SAR(1 g) = 3.87 W/kg; SAR(10 g) = 2.02 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 10.5 mm

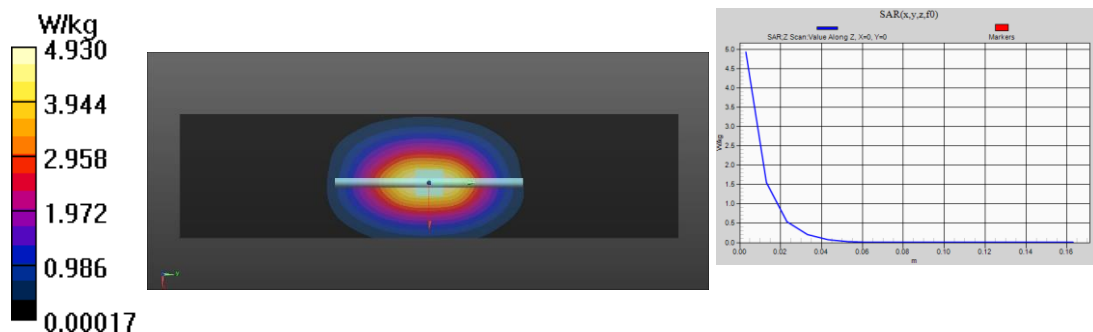
Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 4.93 W/kg

System validation below 2GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 4.93 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/10/2025 12:59:04 PM

DUT: D835V2 - SN4d123

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 835 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.46, 5.49, 5.57) @ 835 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 835$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.49$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation below 2GHz/System verification/Dipole Area Scan 2 (31x121x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 75.02 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 3.96 W/kg; SAR(10 g) = 2.63 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.51 W/kg

System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0: Measurement

grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 75.02 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 5.55 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 2.62 W/kg (SAR corrected for target medium)

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

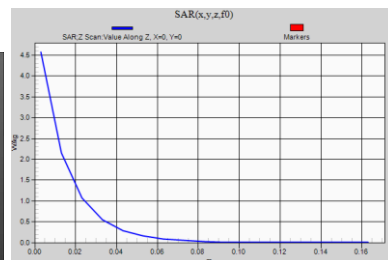
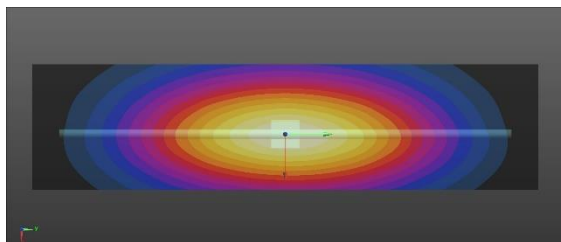
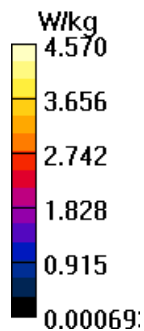
Ratio of SAR at M2 to SAR at M1 = 69.3%

Maximum value of SAR (measured) = 4.56 W/kg

System validation below 2GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 4.57 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 6/11/2025 9:45:20 AM

DUT: D2450V2 - SN890

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 2450 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.42, 4.44, 4.51) @ 2450 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2450$ MHz; $\sigma = 1.707$ S/m; $\epsilon_r = 36.409$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation 2-3GHz rev1/System verification/Dipole Area Scan 2 (41x71x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 59.63 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 4.4 W/kg; SAR(10 g) = 2.01 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 5.96 W/kg

System validation 2-3GHz rev1/System verification/0 degree Zoom Scan (7x7x7)/Cube 0: Measurement

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

Reference Value = 59.63 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 8.64 W/kg

SAR(1 g) = 4.3 W/kg; SAR(10 g) = 2 W/kg (SAR corrected for target medium)

Smallest distance from peaks to all points 3 dB below = 9.8 mm

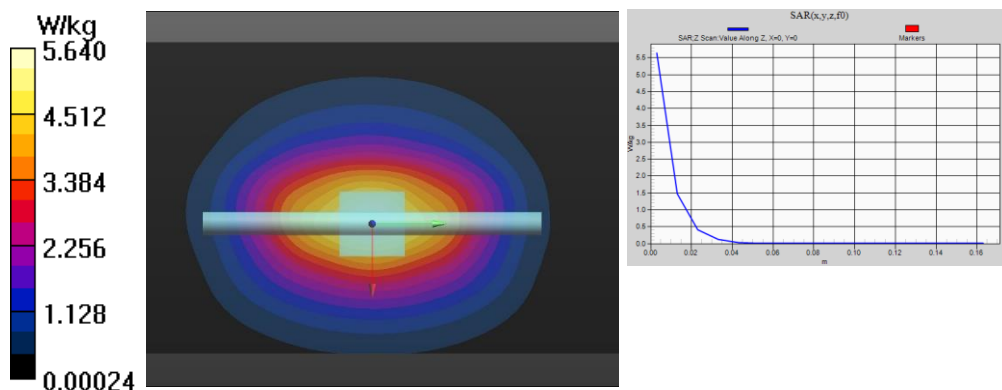
Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 5.64 W/kg

System validation 2-3GHz rev1/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 5.64 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/6/2025 8:45:46 AM

DUT: D5GHzV2 - SN1149

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 5600 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.7, 4.95, 4.69) @ 5600 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5600$ MHz; $\sigma = 4.727$ S/m; $\epsilon_r = 33.893$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation 4-6GHz/System verification/Dipole Area Scan 2 (61x61x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm
Reference Value = 49.58 V/m; Power Drift = -0.00 dB

Fast SAR: SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.05 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.6 W/kg

System validation 4-6GHz/System verification/0 degree Zoom Scan (8x8x7)/Cube 0: Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 49.58 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 4 W/kg; SAR(10 g) = 1.13 W/kg (SAR corrected for target medium)

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

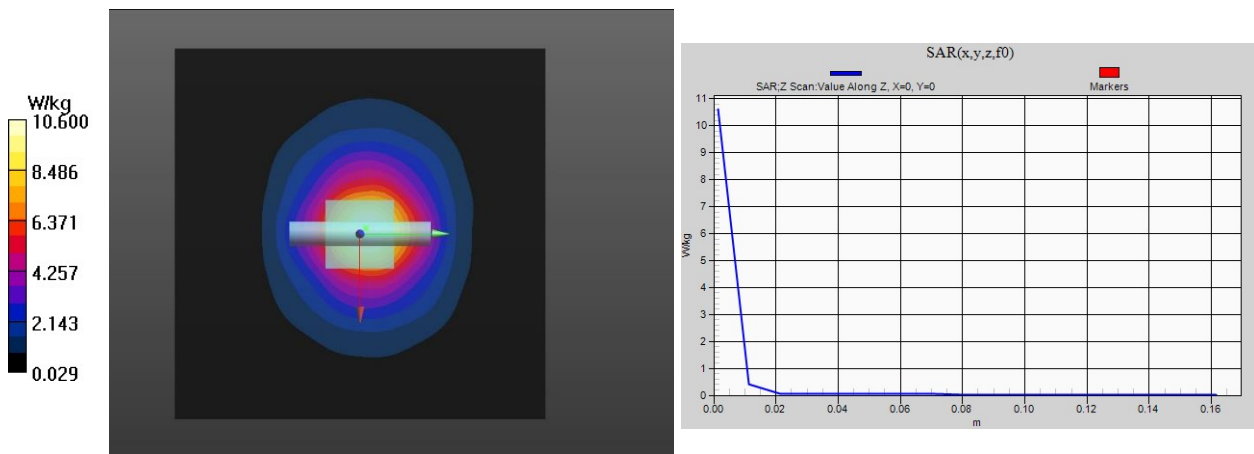
Ratio of SAR at M2 to SAR at M1 = 50.1%

Maximum value of SAR (measured) = 10.2 W/kg

System validation 4-6GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 10.6 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/6/2025 11:28:47 AM

DUT: D5GHzV2 - SN1149

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 5800 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.66, 4.9, 4.65) @ 5800 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5800$ MHz; $\sigma = 4.957$ S/m; $\epsilon_r = 33.545$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation 4-6GHz/System verification/Dipole Area Scan 2 (61x61x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm

Reference Value = 47.47 V/m; Power Drift = -0.05 dB

Fast SAR: SAR(1 g) = 3.59 W/kg; SAR(10 g) = 0.978 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.1 W/kg

System validation 4-6GHz/System verification/0 degree Zoom Scan (8x8x7)/Cube 0: Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 47.47 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.06 W/kg (SAR corrected for target medium)

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

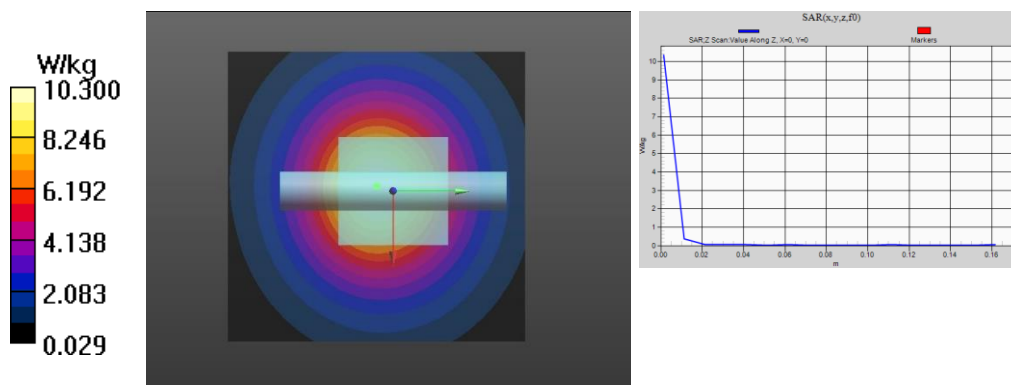
Ratio of SAR at M2 to SAR at M1 = 48.5%

Maximum value of SAR (measured) = 9.80 W/kg

System validation 4-6GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 10.3 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/7/2025 10:15:43 AM

DUT: D5GHzV2 - SN1149

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 5200 MHz;
- Probe: EX3DV4 - SN3812; ConvF(4.82, 5.07, 4.81) @ 5200 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 5200$ MHz; $\sigma = 4.249$ S/m; $\epsilon_r = 34.241$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation 4-6GHz/System verification/Dipole Area Scan 2 (61x61x1):

Interpolated grid: $dx=0.9000$ mm, $dy=0.9000$ mm

Reference Value = 51.21 V/m; Power Drift = -0.06 dB

Fast SAR: SAR(1 g) = 3.81 W/kg; SAR(10 g) = 1.05 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.0 W/kg

System validation 4-6GHz/System verification/0 degree Zoom Scan (8x8x7)/Cube 0:

Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 51.21 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 3.89 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)

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

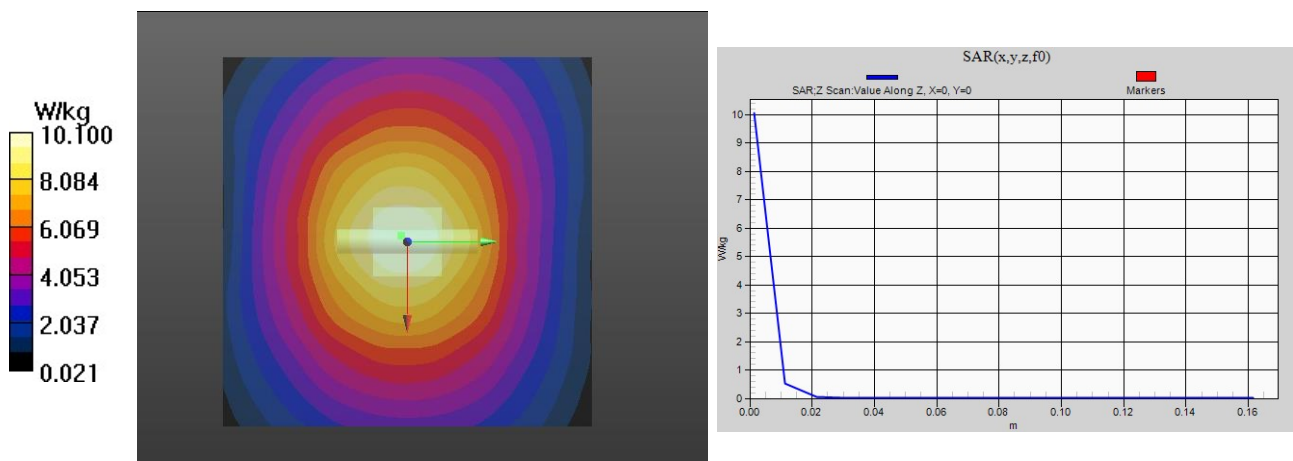
Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 9.66 W/kg

System validation 4-6GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 10.1 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/7/2025 2:11:31 PM

DUT: D2450V2 - SN890

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 2450 MHz;
- Probe: EX3DV4 - SN3812; ConvF(6.71, 7.06, 6.69) @ 2450 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2450$ MHz; $\sigma = 1.745$ S/m; $\epsilon_r = 38.378$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation 2-3GHz/System verification/Dipole Area Scan 2 (41x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Reference Value = 52.98 V/m; Power Drift = 0.00 dB

Fast SAR: SAR(1 g) = 2.78 W/kg; SAR(10 g) = 1.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.61 W/kg

System validation 2-3GHz/System verification/0 degree Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 52.98 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 5.18 W/kg

SAR(1 g) = 2.69 W/kg; SAR(10 g) = 1.26 W/kg (SAR corrected for target medium)

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

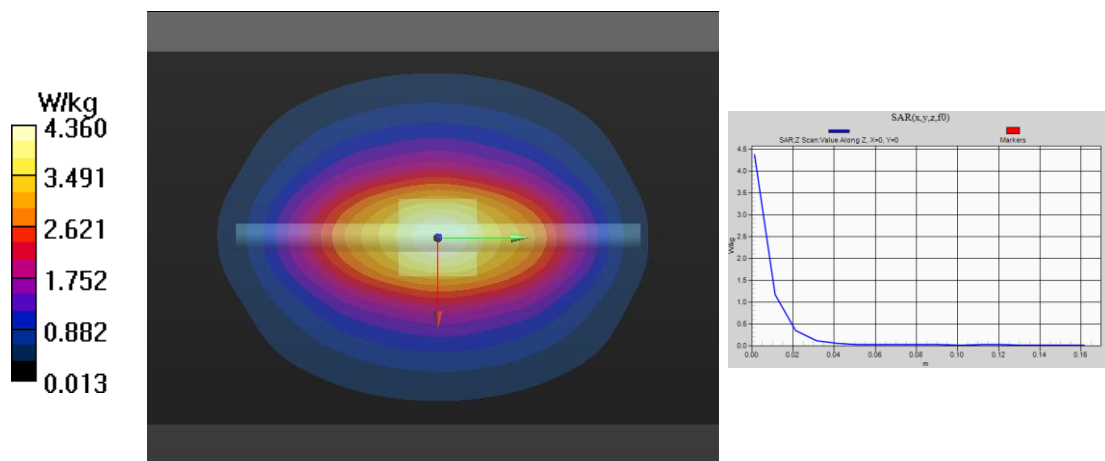
Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 4.34 W/kg

System validation 2-3GHz/System verification/Z Scan (1x1x17):

Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.36 W/kg



Test Laboratory: SGS SAR Laboratory North America
Date/Time: 10/9/2025 9:08:58 AM

DUT: D2450V2 - SN890

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 2450 MHz;
- Probe: EX3DV4 - SN3812; ConvF(6.71, 7.06, 6.69) @ 2450 MHz; Calibrated: 1/30/2025
- Medium parameters used: $f = 2450$ MHz; $\sigma = 1.755$ S/m; $\epsilon_r = 38.376$; $\rho = 1000$ kg/m³; Phantom: ELI v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 1/31/2025
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

System validation 2-3GHz/System verification/Dipole Area Scan 2 (41x71x1):

Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Reference Value = 52.67 V/m; Power Drift = 0.02 dB

Fast SAR: SAR(1 g) = 2.78 W/kg; SAR(10 g) = 1.23 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.61 W/kg

System validation 2-3GHz/System verification/0 degree Zoom Scan (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 52.67 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 5.24 W/kg

SAR(1 g) = 2.72 W/kg; SAR(10 g) = 1.28 W/kg (SAR corrected for target medium)

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

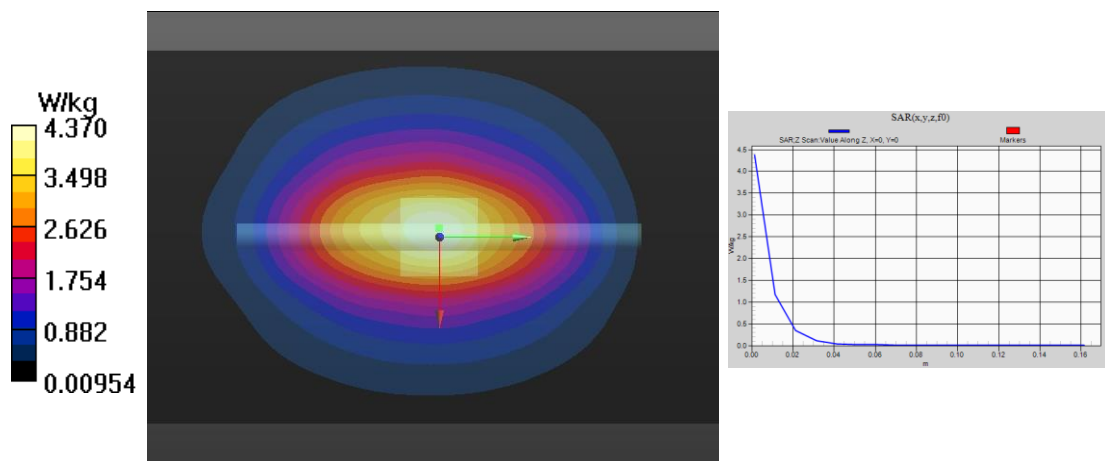
Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 4.36 W/kg

System validation 2-3GHz/System verification/Z Scan (1x1x17):

Measurement grid: $dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 4.37 W/kg



APPENDIX D - MEASUREMENT UNCERTAINTY BUDGET

Test Name:	SAR 62209 (0.3 to 6 GHz range)
Instrument(s) Used:	DASY 52 SAR Measurement Sytem
Standard(s) Reference:	IEC 62209

Symbol	Source of Uncertainty	Value	Probability Distribution	Divisor	ci (1g)	ci (10g)	Std. Unc. (1g)	Std. Unc. (10g)	vi or veff
	MEASUREMENT DESCRIPTION								
	Probe Calibration	6.0%	N1	1	1	1	6.0%	6.0%	inf
	Axial Isotropy	4.7%	R	1.732	0.7	0.7	1.9%	1.9%	inf
	Hemispherical Isotropy	9.6%	R	1.732	0.7	0.7	3.9%	3.9%	inf
	Linearity	4.7%	R	1.732	1	1	2.7%	2.7%	inf
	System Detection Limits	1.0%	R	1.732	1	1	0.6%	0.6%	inf
	Modulation Response	2.4%	R	1.732	1	1	1.4%	1.4%	inf
	Boundary Effects	2.0%	R	1.732	1	1	1.2%	1.2%	inf
	Readout Electronics	0.3%	N1	1	1	1	0.3%	0.3%	inf
	Response Time	0.8%	R	1.732	1	1	0.5%	0.5%	inf
	Integration Time	2.6%	R	1.732	1	1	1.5%	1.5%	inf
	RF Ambient Noise	3.0%	R	1.732	1	1	1.7%	1.7%	inf
	RF Ambient Reflections	3.0%	R	1.732	1	1	1.7%	1.7%	inf
	Probe Positioner	0.8%	R	1.732	1	1	0.5%	0.5%	inf
	Probe Positioning	6.7%	R	1.732	1	1	3.9%	3.9%	inf
	Post Processing	4.0%	R	1.732	1	1	2.3%	2.3%	inf
	TEST SAMPLE RELATED								
	Device Positioning	2.9%	N1	1	1	1	2.9%	2.9%	inf
	Device Holder	3.6%	N1	1	1	1	3.6%	3.6%	inf
	Power Drift	5.0%	R	1.732	1	1	2.9%	2.9%	inf
	Power Scaling	0.0%	R	1.732	1	1	0.0%	0.0%	inf
	PHANTOM AND SETUP								
	Phantom Uncertainty	7.9%	R	1.732	1	1	4.6%	4.6%	inf
	SAR correction	1.9%	R	1.732	1	0.84	1.1%	0.9%	inf
	Liquid Conductivity(meas.)	2.5%	N1	1	0.78	0.71	2.0%	1.8%	inf
	Liquid Permittivity(meas.)	2.5%	N1	1	0.26	0.26	0.7%	0.7%	inf
	Temp. unc. - Conductivity	1.7%	R	1.732	0.78	0.71	0.8%	0.7%	inf
	Temp. unc. - Permittivity	0.3%	R	1.732	0.23	0.26	0.0%	0.0%	inf
			n1	1	1	1	0.0%	0.0%	inf

uc(Fs)	Combined Standard Uncertainty	N1	1	12.3%	12.3%
U(Fs)	Expanded Uncertainty	Normal k=	2	24.6%	24.5%

The Expanded Uncertainty is 24.6% for a Normal k factor equal to 2

Measurement uncertainty is not used to adjust the measurements to determine compliance.

REVISION HISTORY

Revision Level	Description of changes	Revision Date
0	Initial release	24 November 2025
1	Updated standard on Title page.	7 April 2026
2	Formatted tables to delete blank pages and added FCC ID to title pg.	18 June 2026