

FCC SAR Test Report

WCDMA IV	Right Cheek	0.23	0.883	0.963	0.122	1.11	1.19	1.31	Σ SAR < 1.6, Not required
	Right Tilted	0.22	1.1	1.075	0.12	1.32	1.29	1.41	Σ SAR < 1.6, Not required
	Left Cheek	0.37	0.802	0.902	0.086	1.17	1.27	1.36	Σ SAR < 1.6, Not required
	Left Tilted	0.19	0.888	0.72	0.098	1.08	0.91	1.01	Σ SAR < 1.6, Not required
WCDMA V	Right Cheek	0.32	0.883	0.963	0.122	1.20	1.28	1.41	Σ SAR < 1.6, Not required
	Right Tilted	0.17	1.1	1.075	0.12	1.27	1.25	1.37	Σ SAR < 1.6, Not required
	Left Cheek	0.28	0.802	0.902	0.086	1.08	1.18	1.27	Σ SAR < 1.6, Not required
	Left Tilted	0.17	0.888	0.72	0.098	1.05	0.89	0.98	Σ SAR < 1.6, Not required
LTE Band 2	Right Cheek	0.330	0.883	0.963	0.122	1.21	1.29	1.42	Σ SAR < 1.6, Not required
	Right Tilted	0.234	1.1	1.075	0.12	1.33	1.31	1.43	Σ SAR < 1.6, Not required
	Left Cheek	0.131	0.802	0.902	0.086	0.93	1.03	1.12	Σ SAR < 1.6, Not required
	Left Tilted	0.069	0.888	0.72	0.098	0.96	0.79	0.89	Σ SAR < 1.6, Not required
LTE Band 4	Right Cheek	0.117	0.883	0.963	0.122	1.00	1.08	1.20	Σ SAR < 1.6, Not required
	Right Tilted	0.074	1.1	1.075	0.12	1.17	1.15	1.27	Σ SAR < 1.6, Not required
	Left Cheek	0.470	0.802	0.902	0.086	1.27	1.37	1.46	Σ SAR < 1.6, Not required
	Left Tilted	0.187	0.888	0.72	0.098	1.07	0.91	1.00	Σ SAR < 1.6, Not required
LTE Band 5	Right Cheek	0.450	0.883	0.963	0.122	1.33	1.41	1.54	Σ SAR < 1.6, Not required
	Right Tilted	0.298	1.1	1.075	0.12	1.40	1.37	1.49	Σ SAR < 1.6, Not required
	Left Cheek	0.353	0.802	0.902	0.086	1.16	1.26	1.34	Σ SAR < 1.6, Not required
	Left Tilted	0.269	0.888	0.72	0.098	1.16	0.99	1.09	Σ SAR < 1.6, Not required
LTE Band 12	Right Cheek	0.201	0.883	0.963	0.122	1.08	1.16	1.29	Σ SAR < 1.6, Not required
	Right Tilted	0.142	1.1	1.075	0.12	1.24	1.22	1.34	Σ SAR < 1.6, Not required
	Left Cheek	0.210	0.802	0.902	0.086	1.01	1.11	1.20	Σ SAR < 1.6, Not required
	Left Tilted	0.161	0.888	0.72	0.098	1.05	0.88	0.98	Σ SAR < 1.6, Not required
LTE Band 14	Right Cheek	0.500	0.883	0.963	0.122	1.38	1.46	1.59	Σ SAR < 1.6, Not required
	Right Tilted	0.293	1.1	1.075	0.12	1.39	1.37	1.49	Σ SAR < 1.6, Not required
	Left Cheek	0.393	0.802	0.902	0.086	1.20	1.30	1.38	Σ SAR < 1.6, Not required
	Left Tilted	0.296	0.888	0.72	0.098	1.18	1.02	1.11	Σ SAR < 1.6, Not required
LTE Band 30	Right Cheek	0.262	0.883	0.963	0.122	1.14	1.22	1.35	Σ SAR < 1.6, Not required
	Right Tilted	0.262	1.1	1.075	0.12	1.36	1.34	1.46	Σ SAR < 1.6, Not required
	Left Cheek	0.380	0.802	0.902	0.086	1.18	1.28	1.37	Σ SAR < 1.6, Not required
	Left Tilted	0.203	0.888	0.72	0.098	1.09	0.92	1.02	Σ SAR < 1.6, Not required

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<Body Worn Exposure condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	BT				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
WCDMA II	Front Face at 10mm	0.51	0.297	0.676	0.065	0.80	1.18	1.25	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.30	0.547	0.73	0.05	0.85	1.03	1.08	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.24	0	0	0	0.24	0.24	0.24	Σ SAR < 1.6, Not required
WCDMA IV	Front Face at 10mm	0.45	0.297	0.676	0.065	0.75	1.13	1.20	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.31	0.547	0.73	0.05	0.86	1.04	1.09	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.26	0	0	0	0.26	0.26	0.26	Σ SAR < 1.6, Not required
WCDMA V	Front Face at 10mm	0.29	0.297	0.676	0.065	0.58	0.96	1.03	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.48	0.547	0.73	0.05	1.03	1.21	1.26	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0	0	0	0	0.00	0.00	0.00	Σ SAR < 1.6, Not required
LTE Band 2	Front Face at 10mm	0.57	0.297	0.676	0.065	0.87	1.25	1.31	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.307	0.547	0.73	0.05	0.85	1.04	1.09	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.242	0	0	0	0.24	0.24	0.24	Σ SAR < 1.6, Not required
LTE Band 4	Front Face at 10mm	0.67	0.297	0.676	0.065	0.97	1.35	1.41	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.374	0.547	0.73	0.05	0.92	1.10	1.15	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.27	0	0	0	0.27	0.27	0.27	Σ SAR < 1.6, Not required
LTE Band 5	Front Face at 10mm	0.383	0.297	0.676	0.065	0.68	1.06	1.12	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.53	0.547	0.73	0.05	1.08	1.26	1.31	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0	0	0	0	0.00	0.00	0.00	Σ SAR < 1.6, Not required
LTE Band 12	Front Face at 10mm	0.235	0.297	0.676	0.065	0.53	0.91	0.98	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.44	0.547	0.73	0.05	0.98	1.17	1.22	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0	0	0	0	0.00	0.00	0.00	Σ SAR < 1.6, Not required
LTE Band 14	Front Face at 10mm	0.424	0.297	0.676	0.065	0.72	1.10	1.17	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.81	0.547	0.73	0.05	1.36	1.54	1.59	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0	0	0	0	0.00	0.00	0.00	Σ SAR < 1.6, Not required
LTE Band 30	Front Face at 10mm	0.51	0.297	0.676	0.065	0.81	1.19	1.25	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.39	0.547	0.73	0.05	0.94	1.12	1.17	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.22	0	0	0	0.22	0.22	0.22	Σ SAR < 1.6, Not required

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<Hotspot Exposure condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)	SPLSR Analysis
		WWAN 1g SAR (W/kg)	2.4GHz WLAN 1g SAR (W/kg)	5GHz WLAN 1g SAR (W/kg)	BT 1g SAR (W/kg)				
WCDMA II	Front Face at 10mm	0.51	0.297	0.676	0.065	0.81	1.19	1.25	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.300	0.547	0.45	0.05	0.85	0.75	0.80	Σ SAR < 1.6, Not required
	Left side at 10mm	0.383	0.051	0.221	0	0.43	0.60	0.60	Σ SAR < 1.6, Not required
	Right side at 10mm	0.382	0.019	0.118	0.069	0.40	0.50	0.57	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.52	0	0	0	0.52	0.52	0.52	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.24	0.297	0.676	0.065	0.53	0.91	0.98	Σ SAR < 1.6, Not required
WCDMA IV	Front Face at 10mm	0.54	0.297	0.676	0.065	0.84	1.22	1.29	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.26	0.547	0.45	0.05	0.81	0.71	0.76	Σ SAR < 1.6, Not required
	Left side at 10mm	0.54	0.051	0.221	0	0.60	0.77	0.77	Σ SAR < 1.6, Not required
	Right side at 10mm	0.26	0.019	0.118	0.069	0.28	0.38	0.45	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.54	0	0	0	0.54	0.54	0.54	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.26	0.297	0.676	0.065	0.56	0.94	1.00	Σ SAR < 1.6, Not required
WCDMA V	Front Face at 10mm	0.286	0.297	0.676	0.065	0.58	0.96	1.03	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.480	0.547	0.45	0.05	1.03	0.93	0.98	Σ SAR < 1.6, Not required
	Left side at 10mm	0.232	0.051	0.221	0	0.28	0.45	0.45	Σ SAR < 1.6, Not required
	Right side at 10mm	0.332	0.019	0.118	0.069	0.35	0.45	0.52	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.07	0	0	0	0.07	0.07	0.07	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0	0.297	0.676	0.065	0.30	0.68	0.74	Σ SAR < 1.6, Not required
LTE Band 2	Front Face at 10mm	0.57	0.297	0.676	0.065	0.87	1.25	1.31	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.307	0.547	0.45	0.05	0.85	0.76	0.81	Σ SAR < 1.6, Not required
	Left side at 10mm	0.292	0.051	0.221	0	0.34	0.51	0.51	Σ SAR < 1.6, Not required
	Right side at 10mm	0.33	0.019	0.118	0.069	0.35	0.45	0.52	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.457	0	0	0	0.46	0.46	0.46	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.24	0.297	0.676	0.065	0.54	0.92	0.98	Σ SAR < 1.6, Not required
LTE Band 4	Front Face at 10mm	0.67	0.297	0.676	0.065	0.97	1.35	1.41	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.374	0.547	0.45	0.05	0.92	0.82	0.87	Σ SAR < 1.6, Not required
	Left side at 10mm	0.301	0.051	0.221	0	0.35	0.52	0.52	Σ SAR < 1.6, Not required

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	Right side at 10mm	0.255	0.019	0.118	0.069	0.27	0.37	0.44	Σ SAR < 1.6, Not required
	Top side at 10mm	0.102	0.62	1.06	0	0.72	1.16	1.16	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.505	0	0	0	0.51	0.51	0.51	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.27	0.297	0.676	0.065	0.57	0.95	1.01	Σ SAR < 1.6, Not required
LTE Band 5	Front Face at 10mm	0.383	0.297	0.676	0.065	0.68	1.06	1.12	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.53	0.547	0.45	0.05	1.08	0.98	1.03	Σ SAR < 1.6, Not required
	Left side at 10mm	0.258	0.051	0.221	0	0.31	0.48	0.48	Σ SAR < 1.6, Not required
	Right side at 10mm	0.374	0.019	0.118	0.069	0.39	0.49	0.56	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.101	0	0	0	0.10	0.10	0.10	Σ SAR < 1.6, Not required
LTE Band 12	Front Face at 10mm	0.235	0.297	0.676	0.065	0.53	0.91	0.98	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.44	0.547	0.45	0.05	0.99	0.89	0.94	Σ SAR < 1.6, Not required
	Left side at 10mm	0.239	0.051	0.221	0	0.29	0.46	0.46	Σ SAR < 1.6, Not required
	Right side at 10mm	0.284	0.019	0.118	0.069	0.30	0.40	0.47	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0	0	0	0	0.00	0.00	0.00	Σ SAR < 1.6, Not required
LTE Band 14	Front Face at 10mm	0.424	0.297	0.676	0.065	0.72	1.10	1.17	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.81	0.547	0.45	0.05	1.36	1.26	1.31	Σ SAR < 1.6, Not required
	Left side at 10mm	0.359	0.051	0.221	0	0.41	0.58	0.58	Σ SAR < 1.6, Not required
	Right side at 10mm	0.479	0.019	0.118	0.069	0.50	0.60	0.67	Σ SAR < 1.6, Not required
	Top side at 10mm	0	0.62	1.06	0	0.62	1.06	1.06	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.077	0	0	0	0.08	0.08	0.08	Σ SAR < 1.6, Not required
LTE Band 30	Front Face at 10mm	0.51	0.297	0.676	0.065	0.81	1.19	1.25	Σ SAR < 1.6, Not required
	Rear Face at 10mm	0.39	0.547	0.45	0.05	0.94	0.84	0.89	Σ SAR < 1.6, Not required
	Left side at 10mm	0.358	0.051	0.221	0	0.41	0.58	0.58	Σ SAR < 1.6, Not required
	Right side at 10mm	0.056	0.019	0.118	0.069	0.08	0.17	0.24	Σ SAR < 1.6, Not required
	Top side at 10mm	0.05	0.62	1.06	0	0.67	1.11	1.11	Σ SAR < 1.6, Not required
	Bottom side at 10mm	0.404	0	0	0	0.40	0.40	0.40	Σ SAR < 1.6, Not required
	Rear Face at 19mm	0.22	0.297	0.676	0.065	0.52	0.90	0.96	Σ SAR < 1.6, Not required

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< Extremity Exposure condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)	1+3+4 Summed 10g SAR (W/kg)	SPLSR Analysis
		WWAN	2.4GHz WLAN	5GHz WLAN	BT				
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)				
LTE Band 30	Front Face at 0mm	0.000	0.000	0.790	0.000	0.00	0.79	0.79	Σ SAR < 4.0, Not required
	Rear Face at 0mm	1.850	0.000	1.64	0.000	1.81	3.49	3.49	Σ SAR < 4.0, Not required
	Left side at 0mm	0.000	0.000	0.087	0.000	0.00	0.09	0.09	Σ SAR < 4.0, Not required
	Right side at 0mm	0.000	0.000	0.035	0.000	0.00	0.04	0.04	Σ SAR < 4.0, Not required
	Top side at 0mm	0.000	0.000	1.747	0.000	0.00	1.75	1.75	Σ SAR < 4.0, Not required

Note: This report is an additional test and the concurrent analysis data will be copied from the report W7L-P21100025SA01.

Test Engineer : ChengKai Wang, and Chang Gao

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	750MHz	1200	Oct.26,2022	1 Year
System Validation Dipole	SPEAG	835MHz	4d265	Oct.17,2022	1 Year
System Validation Dipole	SPEAG	1750MHz	1176	Oct.18,2022	1 Year
System Validation Dipole	SPEAG	1950MHz	1229	Oct.27,2022	1 Year
System Validation Dipole	SPEAG	2300MHz	1110	Oct.19,2022	1 Year
System Validation Dipole	SPEAG	2450MHz	1048	Oct.20,2022	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1315	Oct.21,2022	1 Year
Dielectric Probe Kit	SPEAG	DAK-3.5	1119	Feb.27,2023	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7612	Jan.26,2023	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1633	Oct.25,2022	1 Year
Universal Radio Communication Tester	R&S	CMW500	169210	Jul.27,2022	1 Year
Power Amplifier	Mimi-Circuits	ZHL-42w	15542	N/A	N/A
Power Amplifier	Mimi-Circuits	ZVE-8G+	363901119	N/A	N/A
Power Meter	Rohde&Schwarz	NRX	102380	Feb.14,2023	1 Year
Power Sensor	Rohde&Schwarz	NRP6A	102942	Feb.14,2023	1 Year
Power Sensor	Rohde&Schwarz	NRP6A	102943	Feb.14,2023	1 Year
ESG Analog Signal Generator	Rohde&Schwarz	SMB100A03	182185	Feb.15,2023	1 Year
Electronic Thermometer	Anymetre	JR912	SZ01	Jul.29,2022	1 Year

6. Measurement Uncertainty

According to KDB 865664 D01, SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR, and ≥ 3.75 W/kg for 10-g SAR. The procedures described in IEEE Std 1528-2013 should be applied. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. When the highest measured SAR within a frequency band is < 1.5 W/kg for 1-g and < 3.75 W/kg for 10-g, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. Hence, the measurement uncertainty analysis is not required in this SAR report because the test result met the condition.

7. Information on the Testing Laboratories

We, Huarui 7layers High Technology (Suzhou) Co., Ltd., were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation.

If you have any comments, please feel free to contact us at the following:

Add: Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86 13910007241

The road map of all our labs can be found in our web site also

Web: <http://www.7Layers.com>

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Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_750MHz_220524**DUT: Dipole: 750 MHz;Type: D750V3;SN:1200**

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

Medium: HSL750_0524 Medium parameters used: $f = 750$ MHz; $\sigma = 0.875$ S/m; $\epsilon_r = 43.303$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(11.02, 11.02, 11.02) @ 750 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.70 W/kg

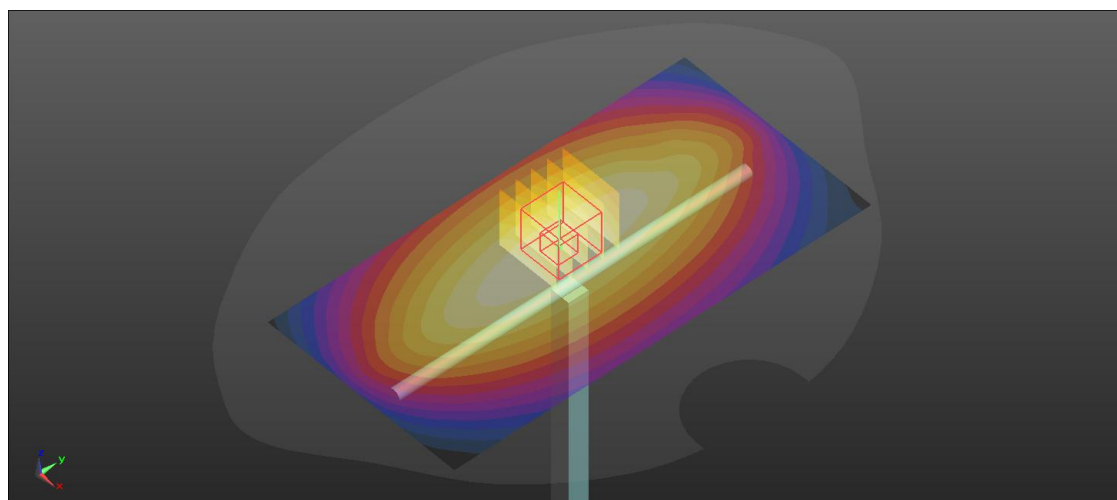
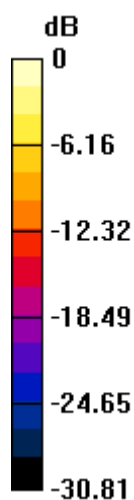
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 44.56 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.13 W/kg

SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.31 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.70 W/kg

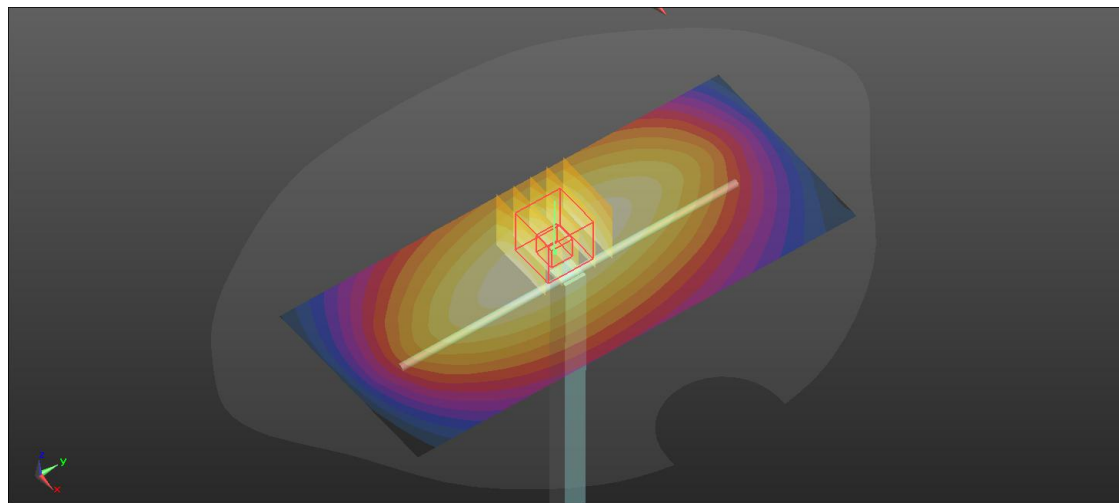
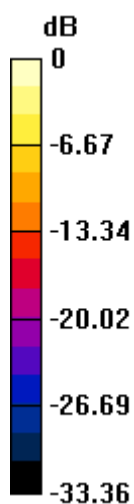
System Check_835MHz_220524**DUT: Dipole: 835 MHz ;Type:D835V2;SN:4d265**

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

Medium: HSL835_0524 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.904 \text{ S/m}$; $\epsilon_r = 43.099$; ρ $= 1000 \text{ kg/m}^3$ Ambient Temperature : 23.3°C ; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(10.57, 10.57, 10.57) @ 835 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x141x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$ Maximum value of SAR (interpolated) = 3.31 W/kg **Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 48.36 V/m ; Power Drift = 0.16 dB Peak SAR (extrapolated) = 3.90 W/kg **SAR(1 g) = 2.45 W/kg ; SAR(10 g) = 1.59 W/kg** Maximum value of SAR (measured) = 3.37 W/kg 0 dB = 3.37 W/kg

System Check_1750MHz_220525**DUT: Dipole: 1750 MHz; Type: D1750V2;SN:1176**

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

Medium: HSL1750_0525 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.349$ S/m; $\epsilon_r = 39.185$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.9, 8.9, 8.9) @ 1750 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.0 W/kg

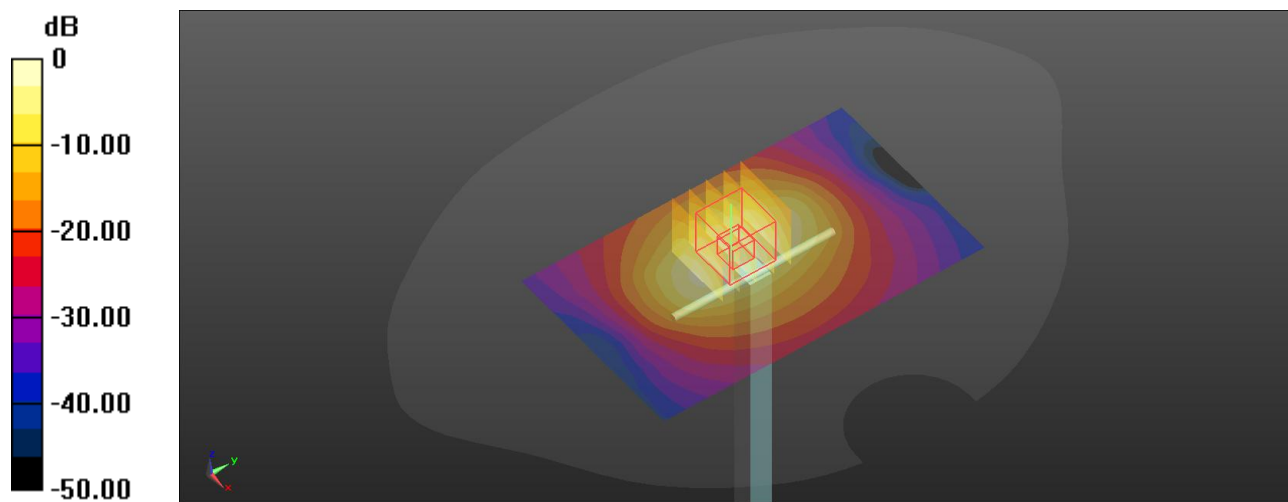
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 68.81 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 8.97 W/kg; SAR(10 g) = 4.75 W/kg

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg

System Check_1950MHz_220525**DUT: Dipole: 1950 MHz;Type: D1950V3;SN:1229**

Communication System: CW; Frequency: 1950 MHz;Duty Cycle: 1:1

Medium: HSL1950_0525 Medium parameters used: $f = 1950$ MHz; $\sigma = 1.421$ S/m; $\epsilon_r = 40.175$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1950 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.3 W/kg

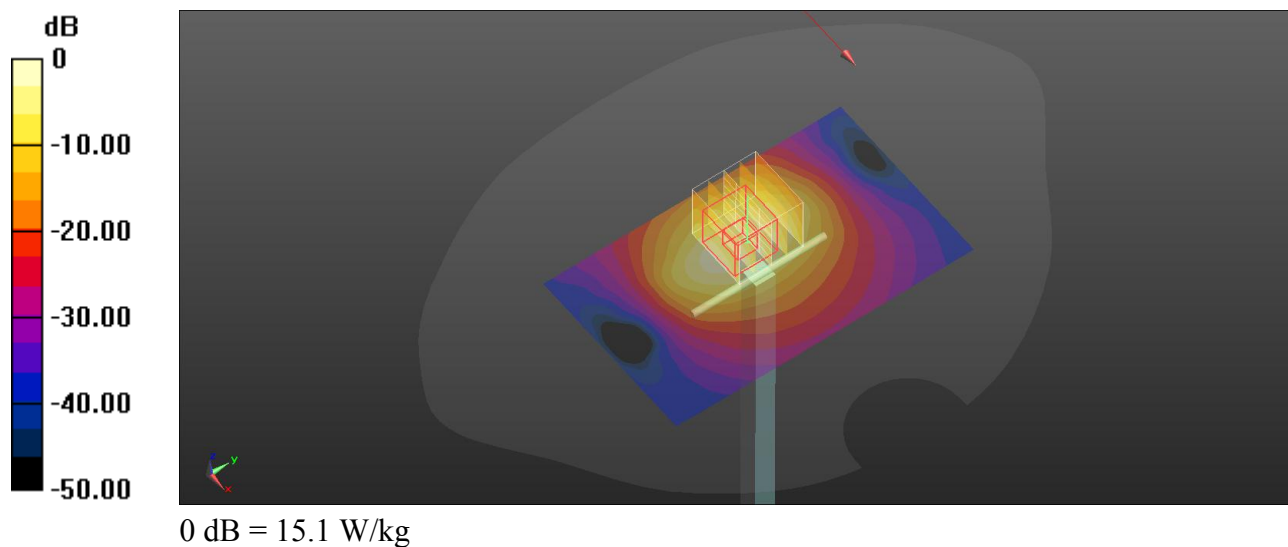
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.53 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 9.56 W/kg; SAR(10 g) = 4.84 W/kg

Maximum value of SAR (measured) = 15.1 W/kg



System Check_HSL2300_220525**DUT: Dipole: 2300 MHz; Type: D2300V2;SN:1110**

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL2300_0525 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.647$ S/m; $\epsilon_r = 40.583$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.22, 8.22, 8.22) @ 2300 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 19.4 W/kg

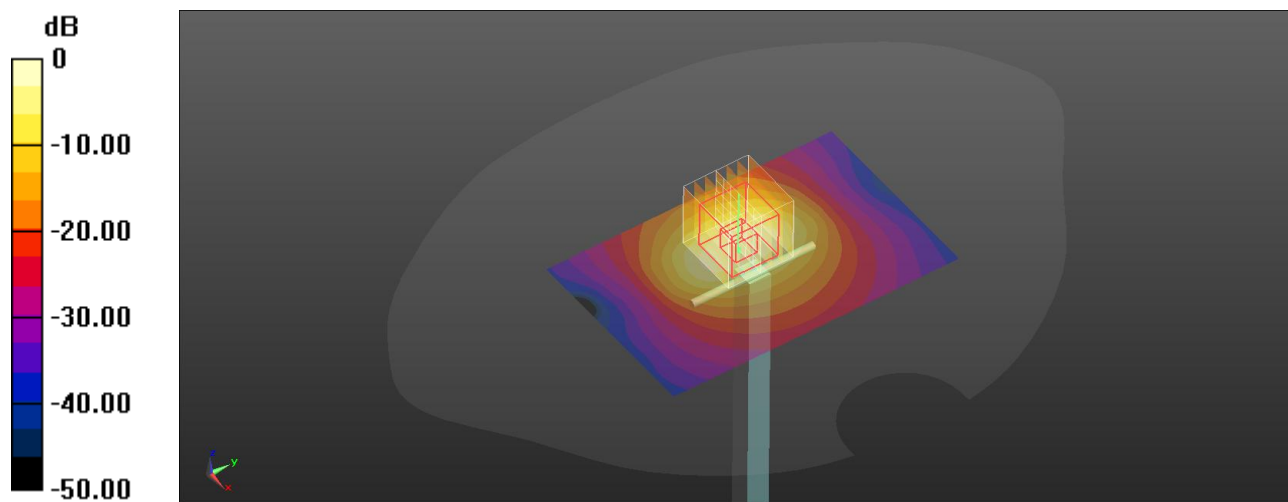
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 61.47 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 11.4 W/kg; SAR(10 g) = 5.45 W/kg

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg

System Check_HSL2450_220526**DUT: Dipole 2450 MHz; Type: D2450V2;SN:1048**

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

Medium: HSL2450_0526 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.8$ S/m; $\epsilon_r = 39.996$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(7.9, 7.9, 7.9) @ 2450 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.1 W/kg

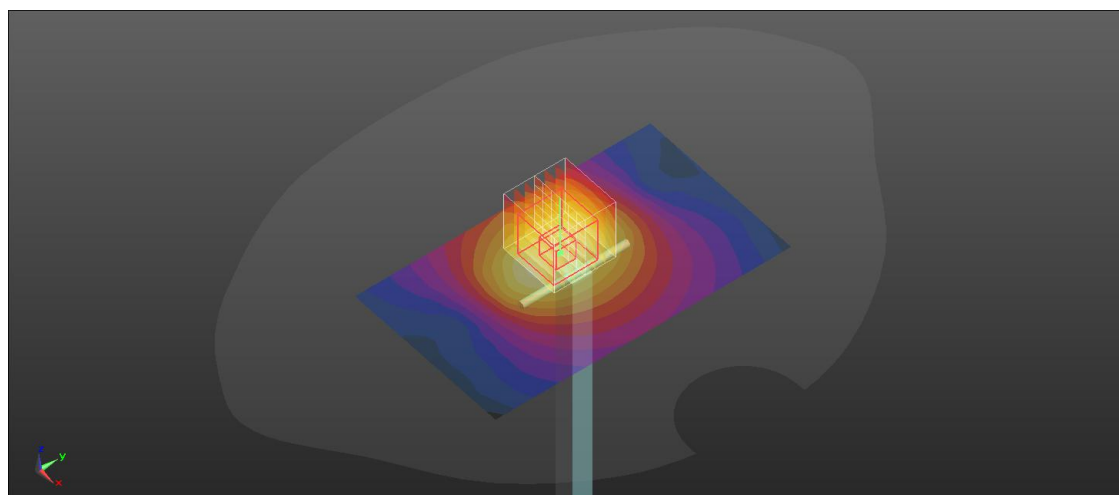
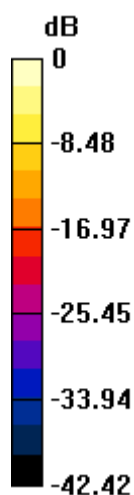
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 71.11 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 25.3 W/kg

SAR(1 g) = 12.3 W/kg; SAR(10 g) = 5.71 W/kg

Maximum value of SAR (measured) = 20.5 W/kg



0 dB = 20.5 W/kg

System Check_HSL5250_220526**DUT: Dipole 5GHzV2; Type: D5GHzV2;SN:1315**

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G_0526 Medium parameters used : $f = 5250$ MHz; $\sigma = 4.725$ S/m; $\epsilon_r = 37.313$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(5.54, 5.54, 5.54) @ 5250 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.1 W/kg

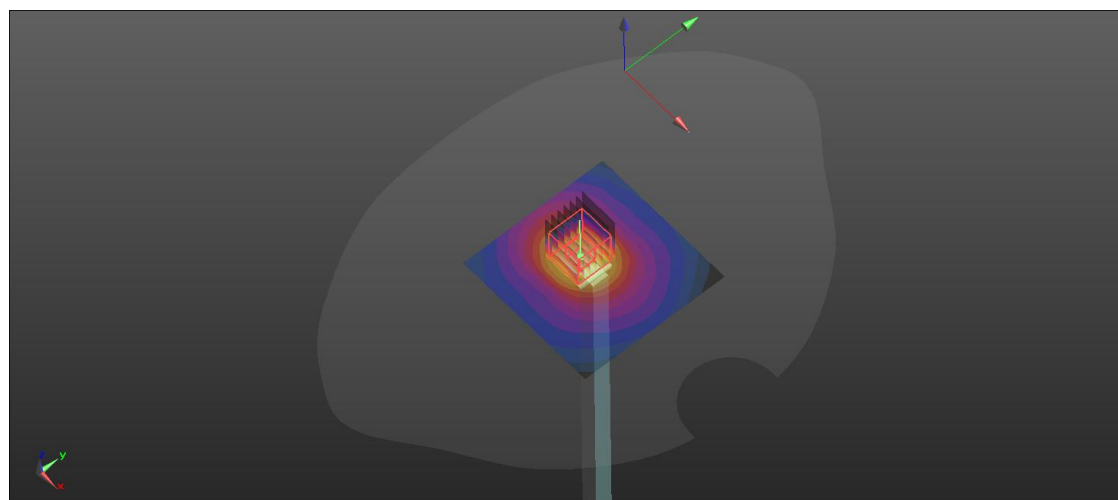
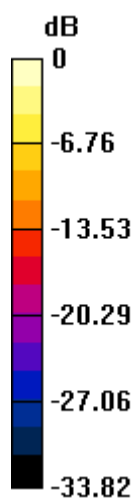
Pin=100mW/Zoom Scan (4x4x2)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.31 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 29.8 W/kg

SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg

System Check_HSL5600_220526**DUT: Dipole 5GHzV2; Type: D5GHzV2;SN:1315**

Communication System: CW ; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium: HSL5G_0526 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.986$ S/m; $\epsilon_r = 35.849$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(5.11, 5.11, 5.11) @ 5600 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.4 W/kg

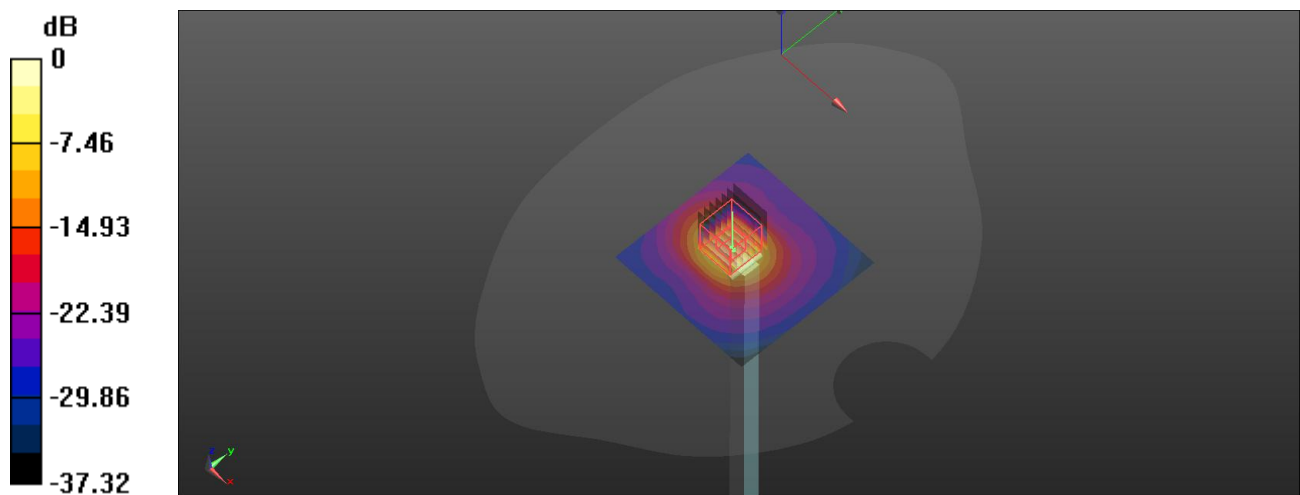
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 26.23 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg

System Check_HSL5750_220526**DUT: Dipole: 5GHzV2; Type: D5GHzV2;SN:1315**

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: Head 5G_0526 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.216$ S/m; $\epsilon_r = 35.495$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(5.2, 5.2, 5.2) @ 5750 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

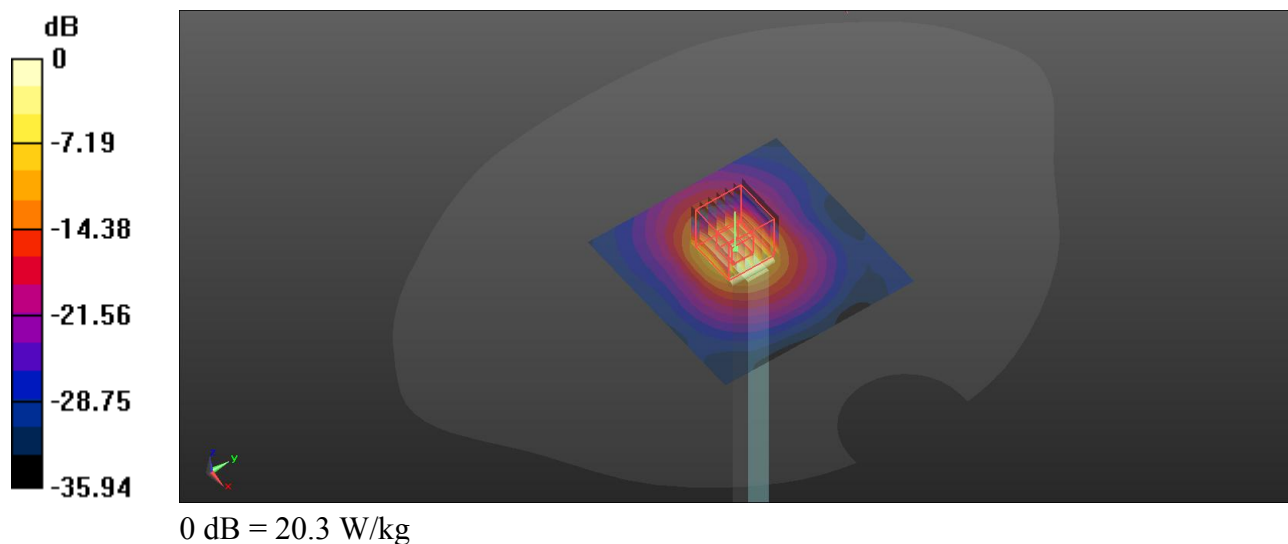
Pin=100mW/Zoom Scan (4x4x2)Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 25.49 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 34.4 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.14 W/kg

Maximum value of SAR (measured) = 20.3 W/kg



Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 WCDMA II_RMC12.2K_Left Cheek_Ch9400

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

Medium: HSL1950_0525 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 41.626$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1880 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.388 W/kg

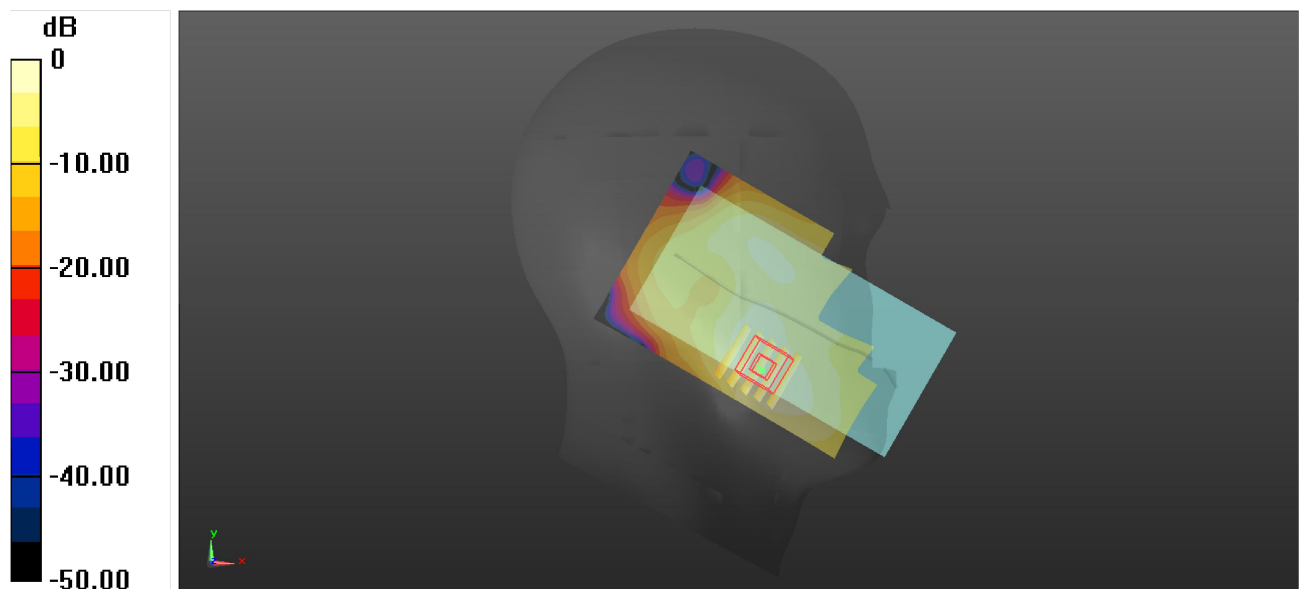
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.366 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.441 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.383 W/kg



0 dB = 0.383 W/kg

P02 WCDMA IV_RMC12.2K_Left Cheek_Ch1413

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0525 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 40.914$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.9, 8.9, 8.9) @ 1732.6 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.400 W/kg

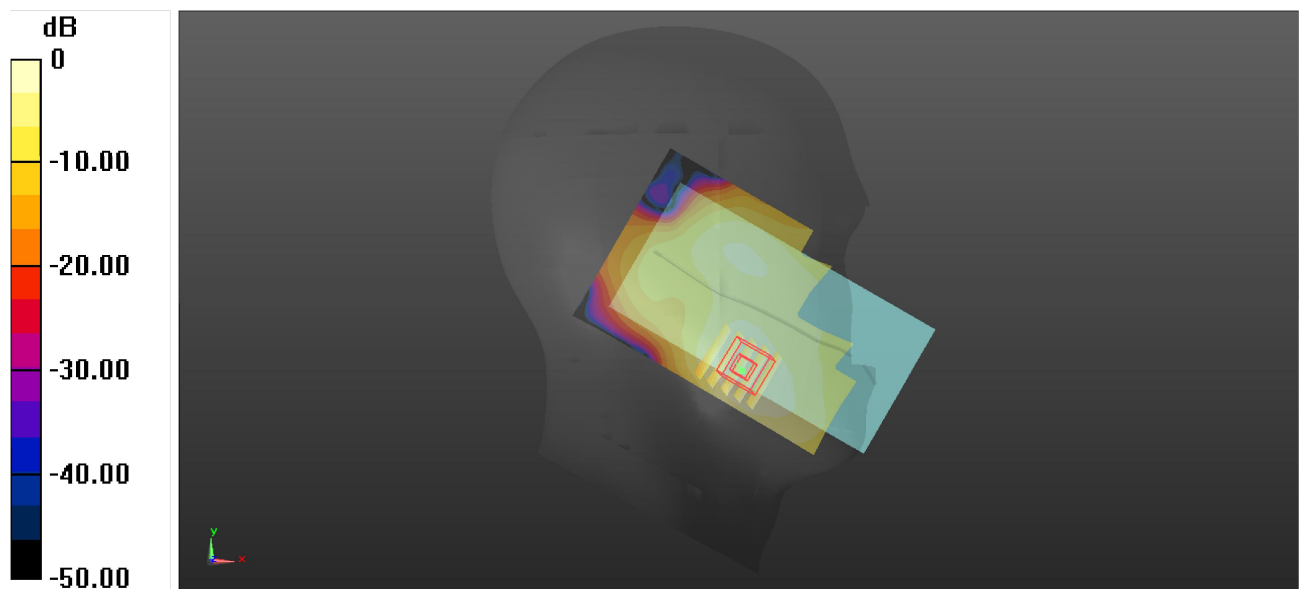
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.251 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.431 W/kg

SAR(1 g) = 0.285 W/kg; SAR(10 g) = 0.186 W/kg

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



0 dB = 0.379 W/kg

P03 WCDMA V_RMC12.2K_Right Cheek_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835_0524 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 43.007$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(10.57, 10.57, 10.57) @ 836.4 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.304 W/kg

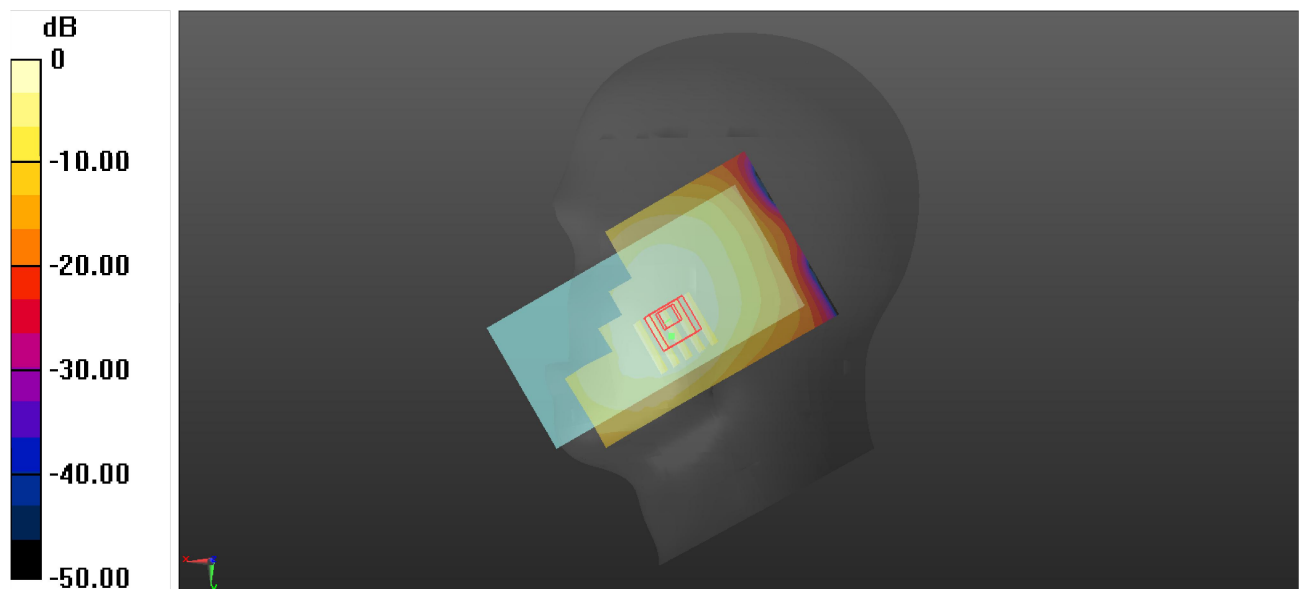
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.767 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.189 W/kg

Maximum value of SAR (measured) = 0.300 W/kg



0 dB = 0.300 W/kg

P04 LTE 2_QPSK20M_Right Cheek_Ch18700_1RB_OS50

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1950_0525 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 41.663$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1860 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.390 W/kg

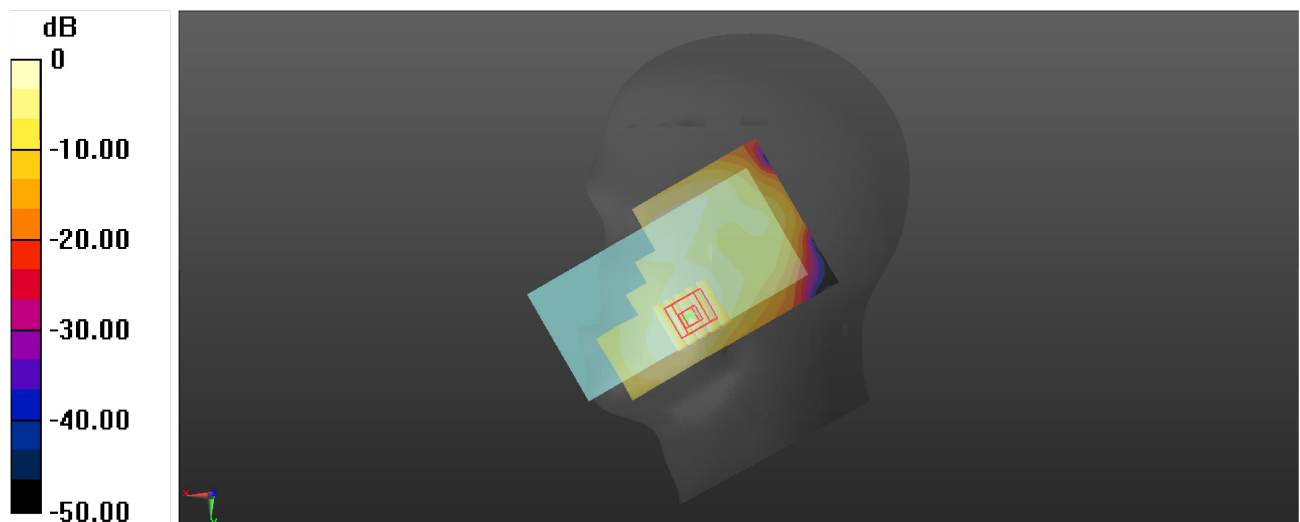
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.999 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.393 W/kg



0 dB = 0.393 W/kg

P05 LTE 4_QPSK20M_Leftt Cheek_Ch20300_1RB_OS50

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750_0525 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 40.88$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.9, 8.9, 8.9) @ 1745 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.567 W/kg

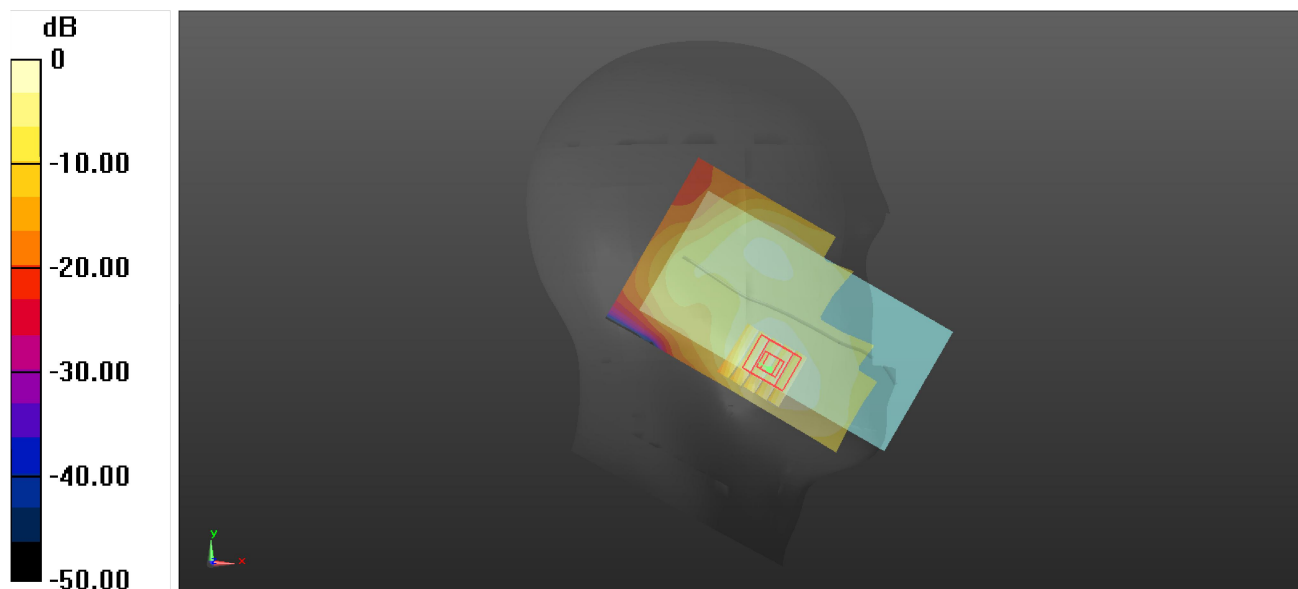
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 7.525 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.265 W/kg

Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.538 W/kg

P06 LTE 5_QPSK10M_Right Cheek_Ch20525_1RB_OS24

Communication System: UID 0, LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0524 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 43.007$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(10.57, 10.57, 10.57) @ 836.5 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.450 W/kg

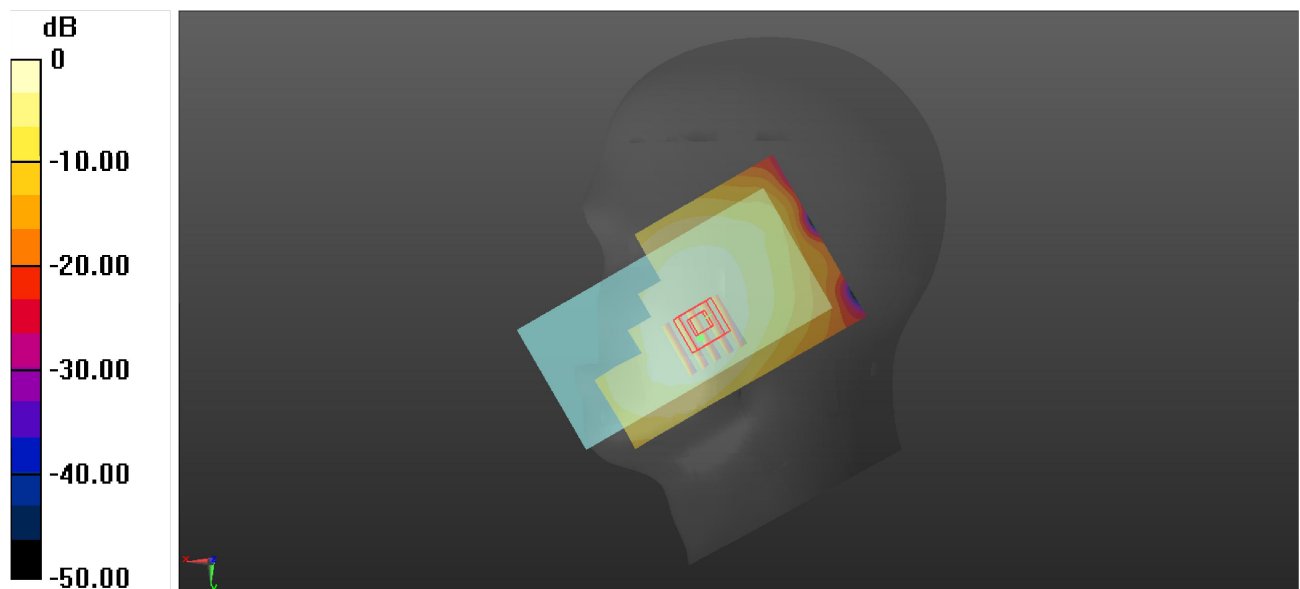
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.458 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.284 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



0 dB = 0.447 W/kg

P07 LTE 12_QPSK20M_Leftt Cheek_Ch23130_1RB_OS24

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium: HSL750_0524 Medium parameters used: $f = 711$ MHz; $\sigma = 0.853$ S/m; $\epsilon_r = 43.358$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(11.02, 11.02, 11.02) @ 711 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.204 W/kg

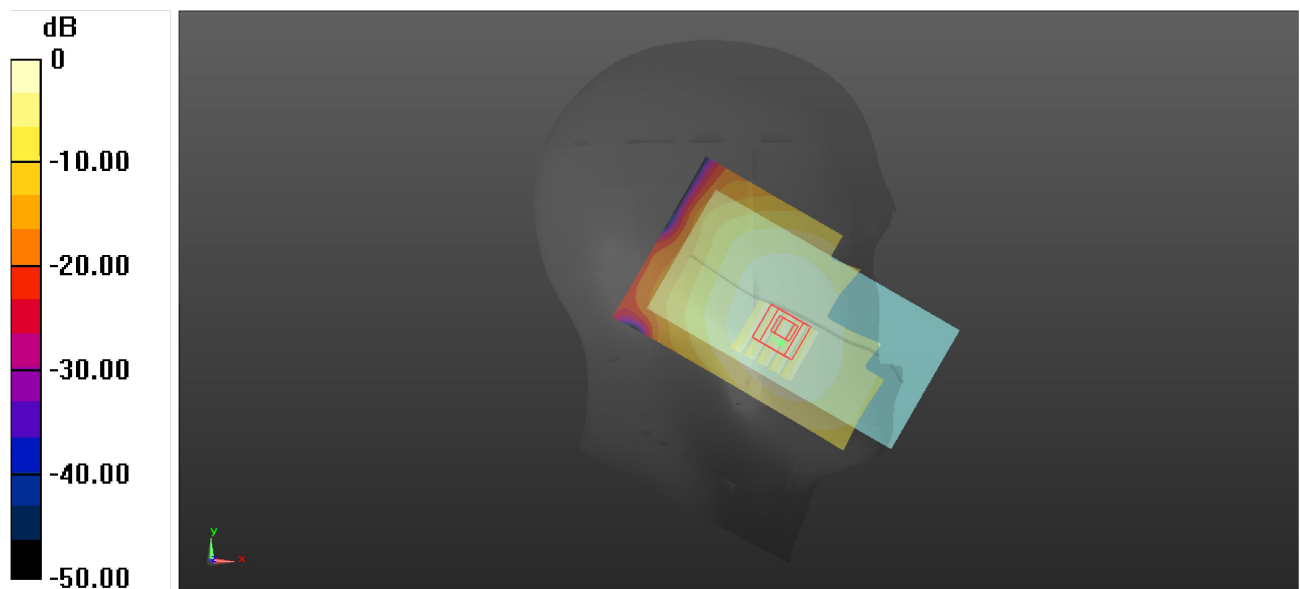
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.807 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.222 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.133 W/kg

Maximum value of SAR (measured) = 0.202 W/kg



0 dB = 0.202 W/kg

P08 LTE 14_QPSK10M_Right Cheek_Ch23330_1RB_OS24

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: HSL750_0524 Medium parameters used: $f = 793$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 43.102$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(11.02, 11.02, 11.02) @ 793 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.472 W/kg

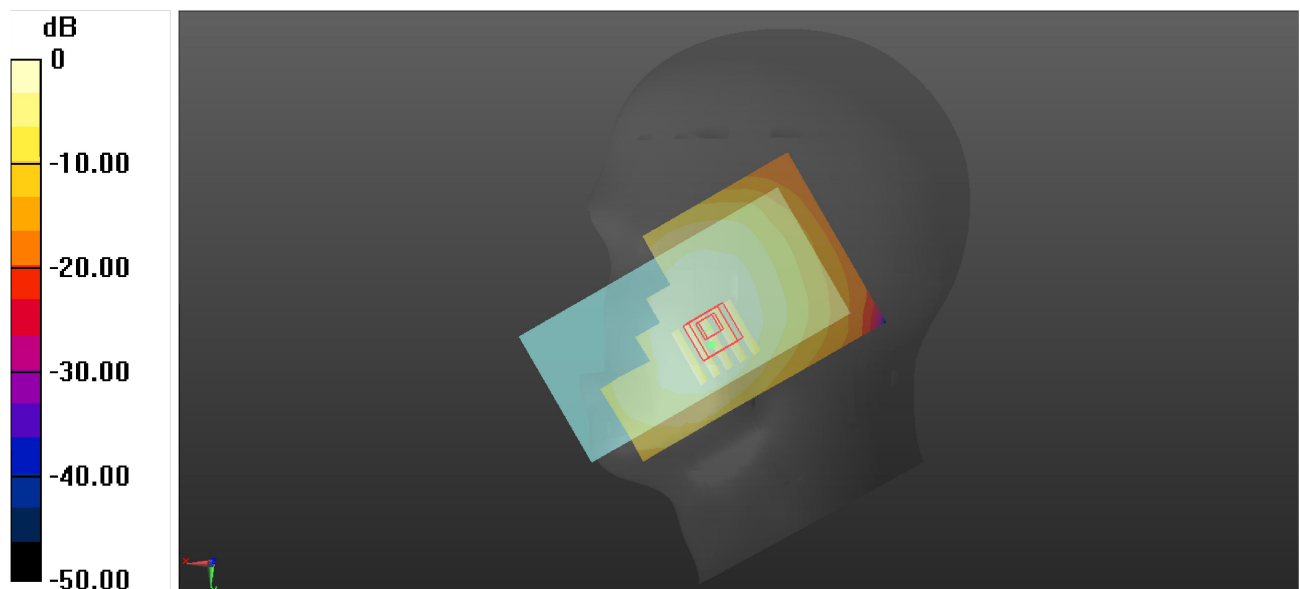
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.503 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.508 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.299 W/kg

Maximum value of SAR (measured) = 0.459 W/kg



0 dB = 0.459 W/kg

P09 LTE 30_QPSK10M_Leftt Cheek_Ch27710_1RB_OS24

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL2300_0525 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.711$ S/m; $\epsilon_r = 39.963$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.22, 8.22, 8.22) @ 2310 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (91x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.509 W/kg

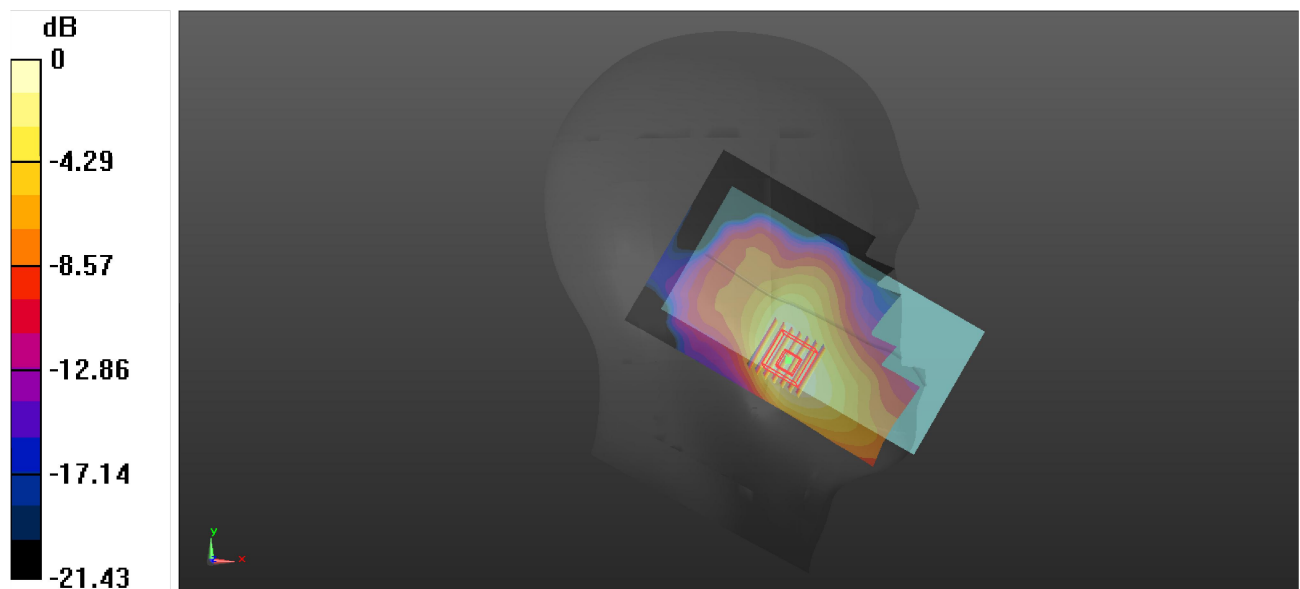
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.065 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.580 W/kg

SAR(1 g) = 0.360 W/kg; SAR(10 g) = 0.214 W/kg

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



0 dB = 0.497 W/kg

P10 802.11a_Right Tilted_Ch6

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_0526 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.809$ S/m; $\epsilon_r = 39.778$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(7.9, 7.9, 7.9) @ 2437 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.46 W/kg

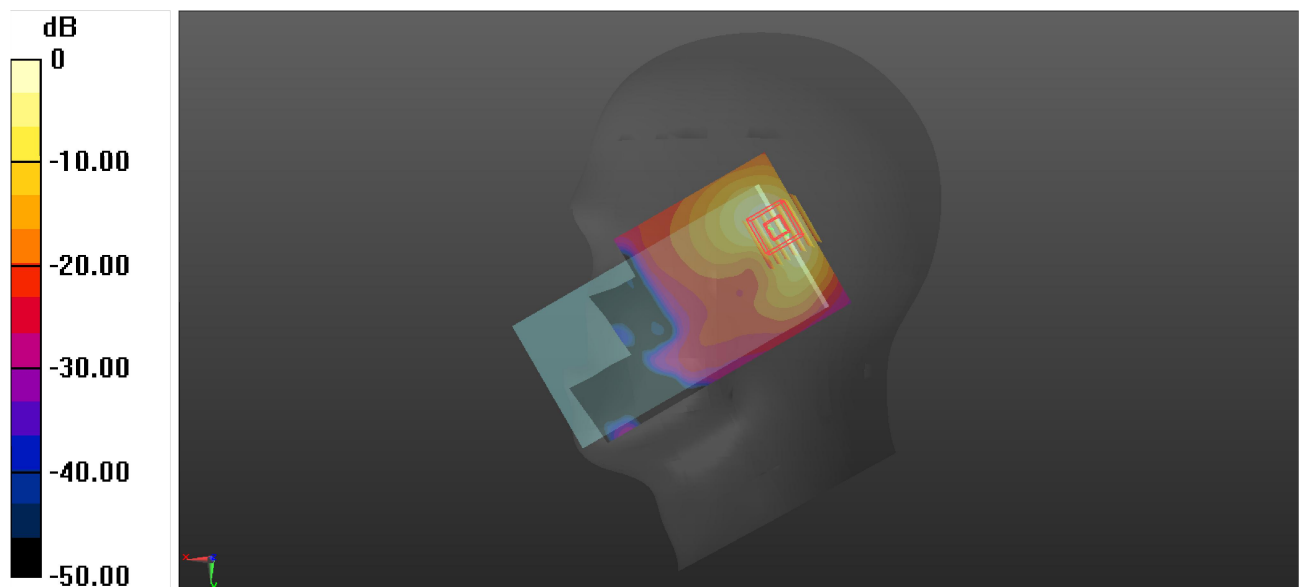
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.39 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.408 W/kg

Maximum value of SAR (measured) = 1.58 W/kg



0 dB = 1.58 W/kg

P11 802.11a_Left Tilted_Ch60

Communication System: 802.11a; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: HSL5G_0526 Medium parameters used: $f = 5300$ MHz; $\sigma = 4.722$ S/m; $\epsilon_r = 36.591$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(5.54, 5.54, 5.54) @ 5300 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.65 W/kg

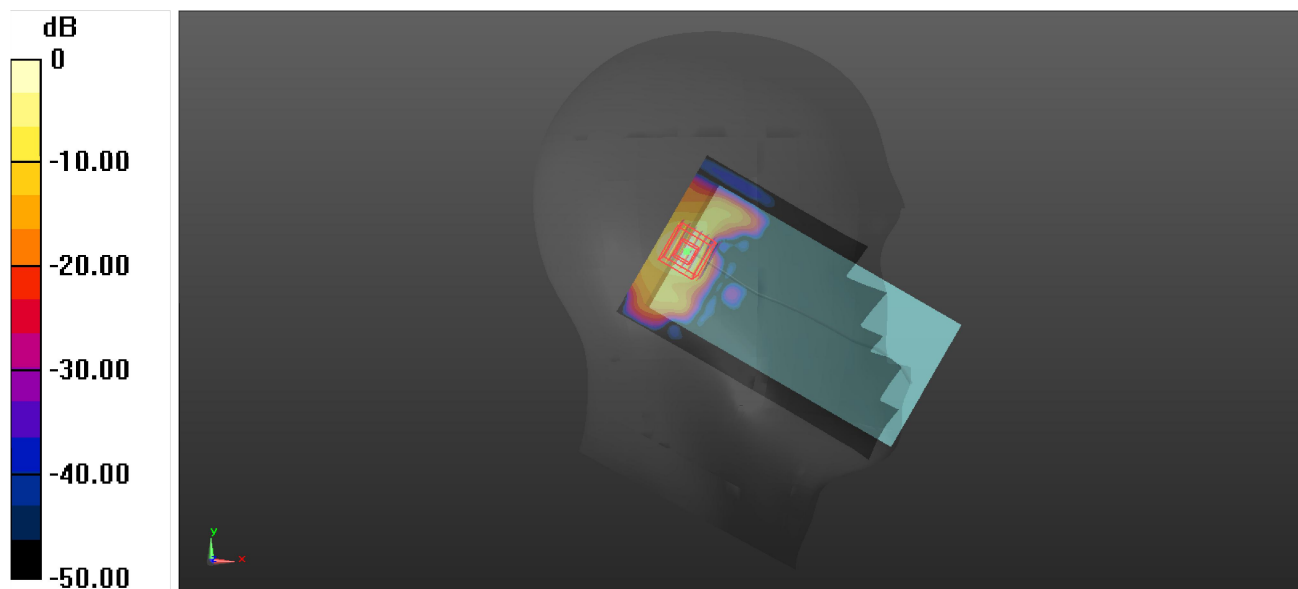
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 9.683 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg

P12 802.11a_Left Tilted_Ch140

Communication System: 802.11a; Frequency: 5700 MHz; Duty Cycle: 1:1

Medium: HSL5G_0526 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.222$ S/m; $\epsilon_r = 35.887$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(5.11, 5.11, 5.11) @ 5700 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.69 W/kg

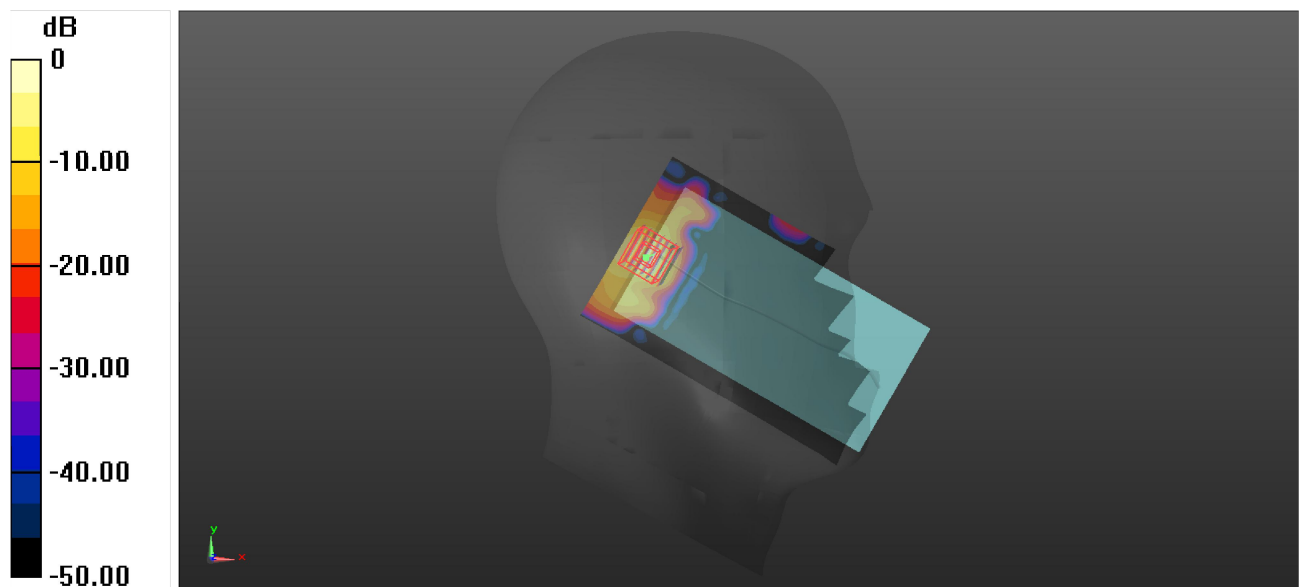
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 7.835 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 1.69 W/kg



0 dB = 1.69 W/kg

P13 802.11a_Left Tilted_Ch157

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: HSL5G_0526 Medium parameters used: $f = 5785$ MHz; $\sigma = 5.274$ S/m; $\epsilon_r = 36.035$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(5.2, 5.2, 5.2) @ 5785 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (101x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.61 W/kg

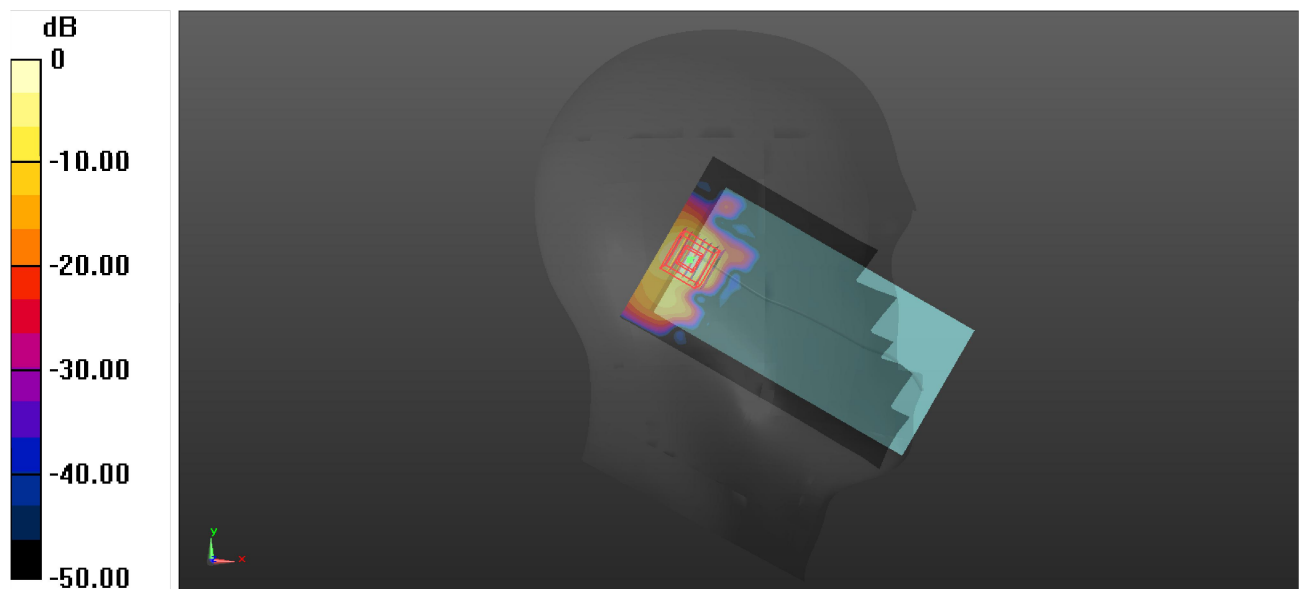
-Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 8.109 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg

P14 BT_GFSK_Right Tilted_Ch39

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium: HSL2450_0526 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.443$; $\rho = 1000$ kg/m³

Ambient Temperature : 22.9°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(7.9, 7.9, 7.9) @ 2441 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (81x151x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

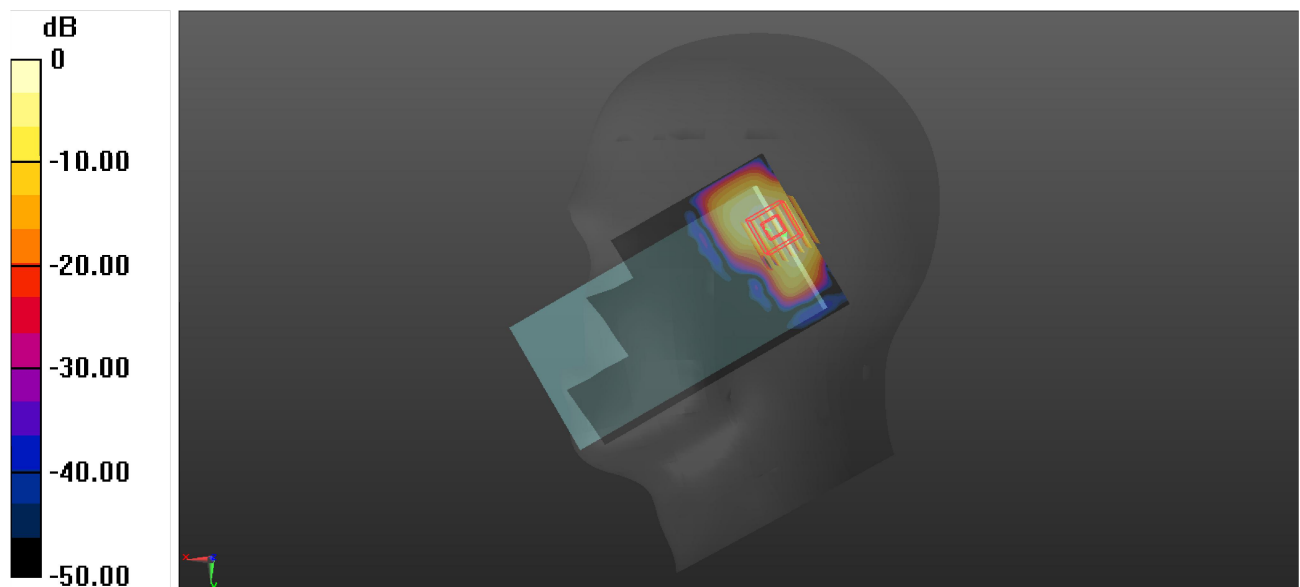
-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.153 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.130 W/kg



0 dB = 0.130 W/kg

P15 WCDMA II_RMC12.2K_Front Face_1cm_Ch9400

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

Medium: HSL1950_0525 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 41.626$; $\rho =$

1000 kg/m^3

Ambient Temperature : 23.1°C ; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1880 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.586 W/kg

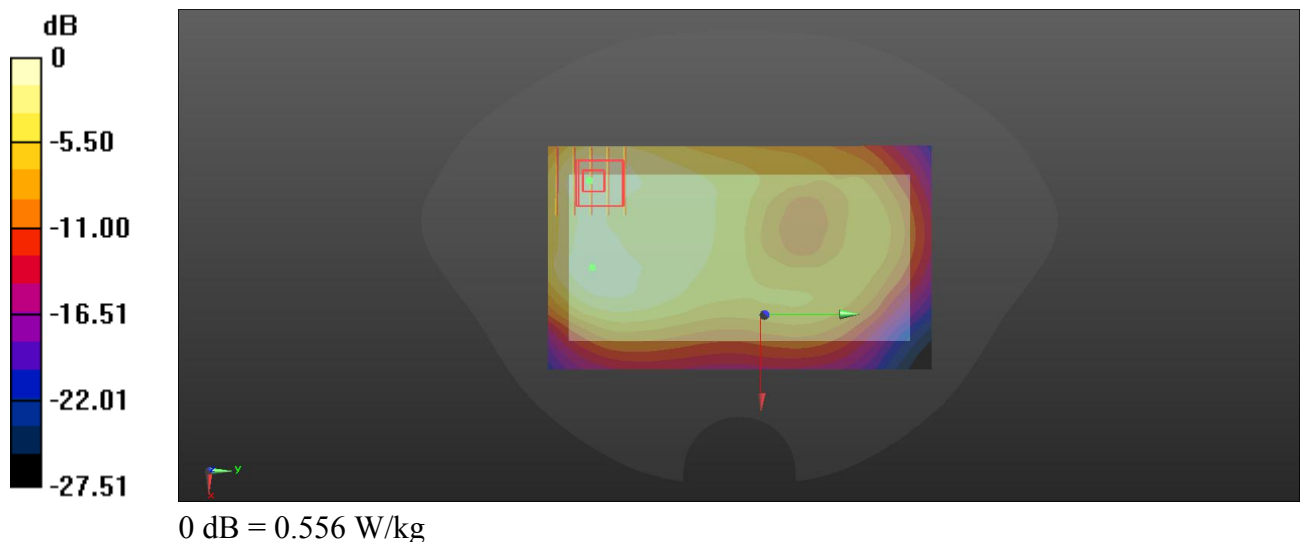
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.539 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.381 W/kg ; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 0.556 W/kg



P16 WCDMA II_RMC12.2K_Rear Face_1.9cm_Ch9400_Full

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

Medium: HSL1950_0525 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.439$ S/m; $\epsilon_r = 41.626$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1880 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.195 W/kg

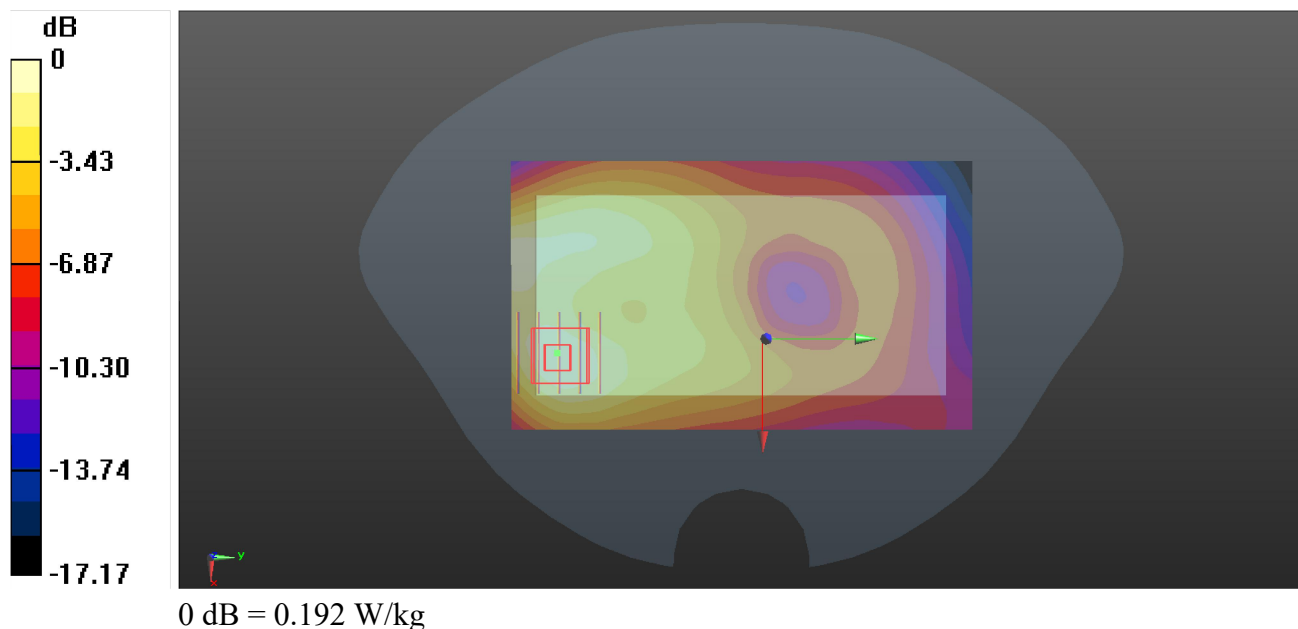
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 5.762 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.108 W/kg

Maximum value of SAR (measured) = 0.192 W/kg



P17 WCDMA IV_RMC12.2K_Front Face_1cm_Ch1413

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0525 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 40.914$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.9, 8.9, 8.9) @ 1732.6 MHz; Calibrated: 1/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.12 (7450)

-Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.509 W/kg

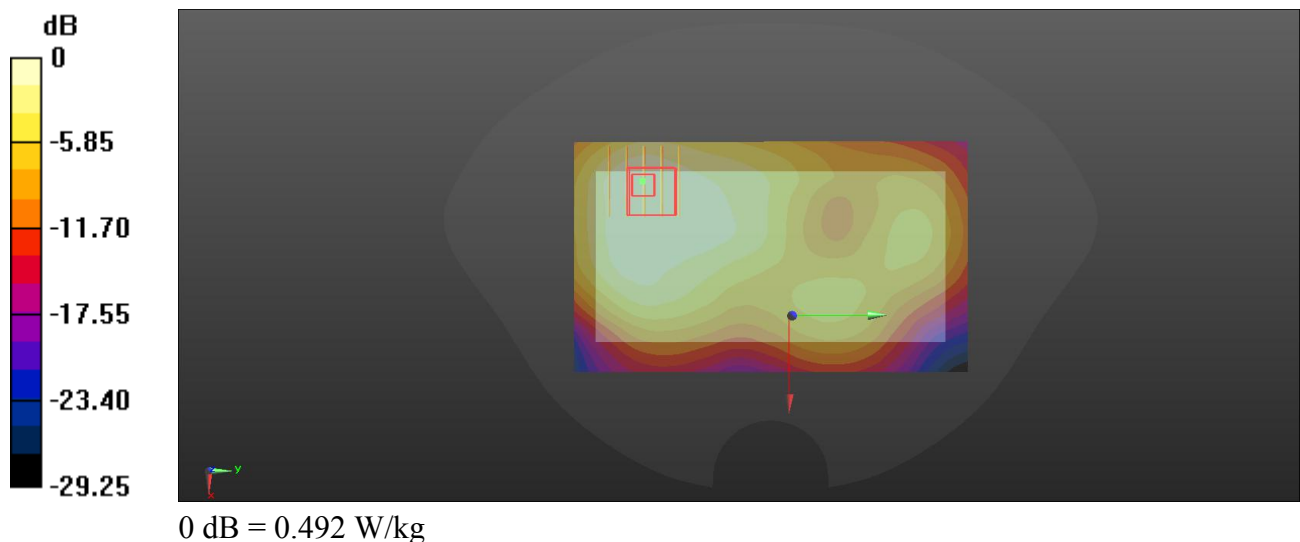
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.660 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.576 W/kg

SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.220 W/kg

Maximum value of SAR (measured) = 0.492 W/kg



P18 WCDMA IV_RMC12.2K_Rear Face_1.9cm_Ch1413_Full

Communication System: WCDMA; Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_0525 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 40.914$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1880 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.214 W/kg

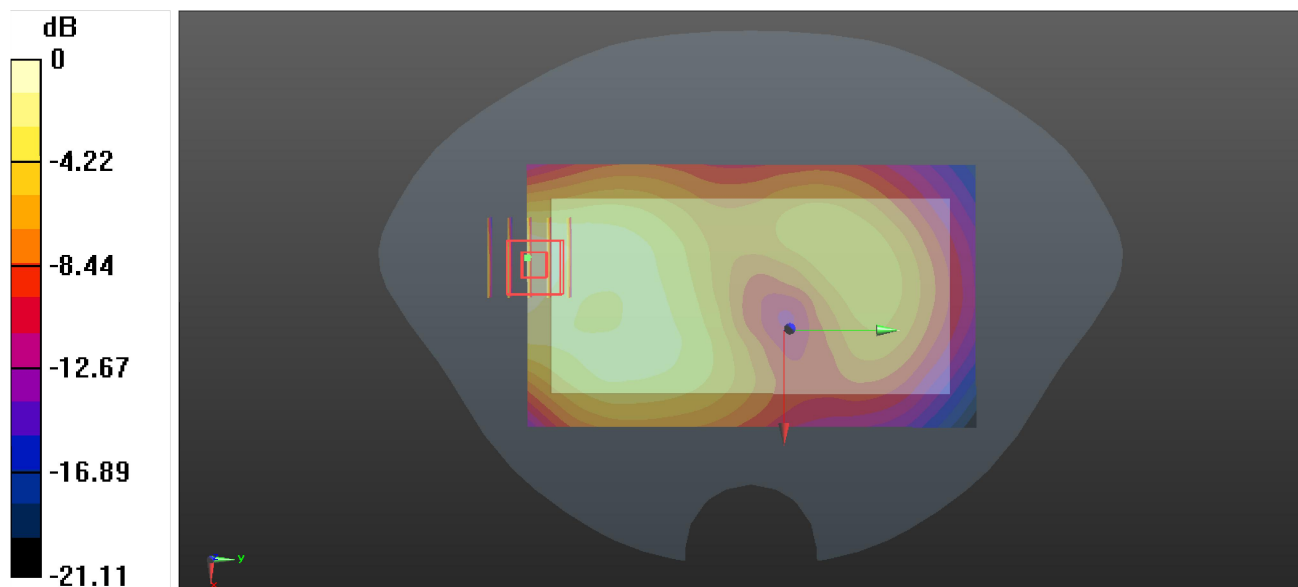
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 4.448 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.339 W/kg

SAR(1 g) = 0.201 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.214 W/kg



0 dB = 0.214 W/kg

P19 WCDMA V_RMC12.2K_Rear Face_1cm_Ch4182

Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835_0524 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 43.007$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04) @ 836.4 MHz; Calibrated: 08/24/2021
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 08/20/2021
- Phantom: SAM (front) with CRP V5.0; Type: QD000P40CB; Serial: TP:1430
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.394 W/kg

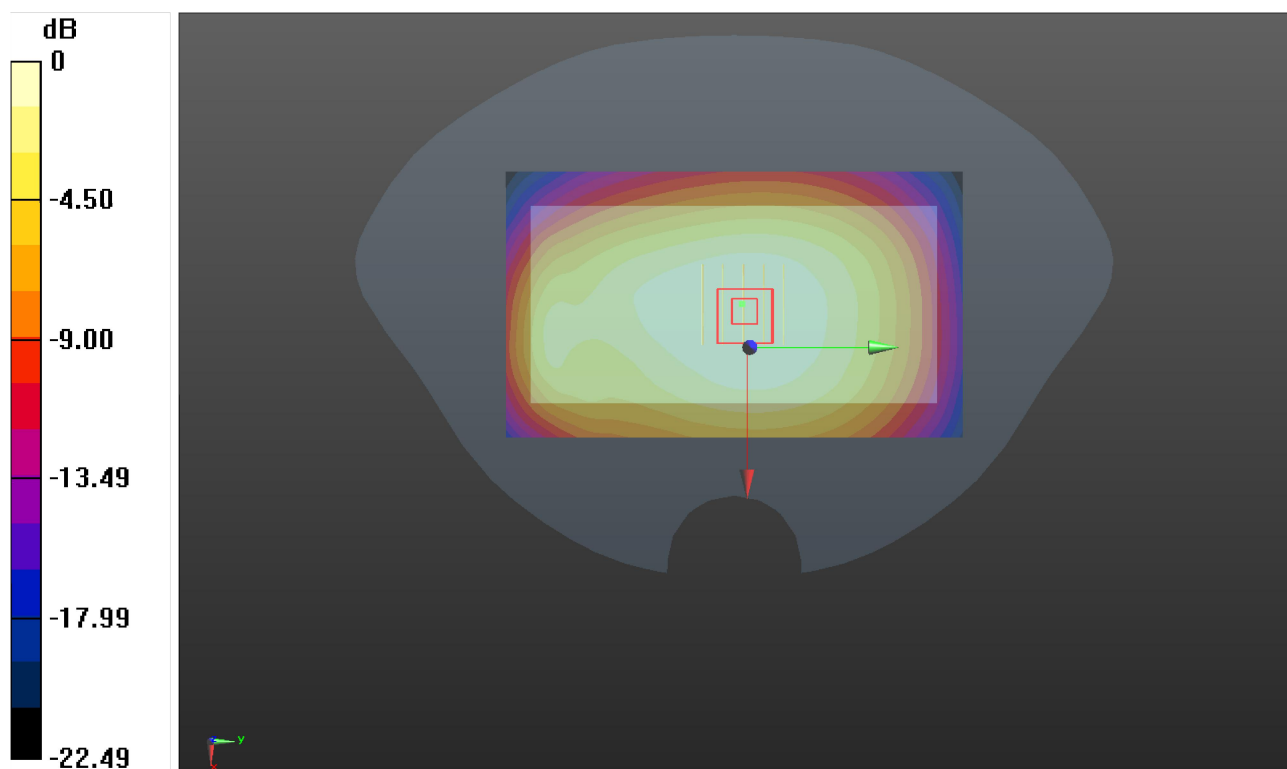
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.06 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.289 W/kg

Maximum value of SAR (measured) = 0.394 W/kg



0 dB = 0.394 W/kg

P20 LTE 2_QPSK20M_Front Face_1cm_Ch18700_1RB_OS50

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1950_0525 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 41.663$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.73, 8.73, 8.73) @ 1860 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.777 W/kg

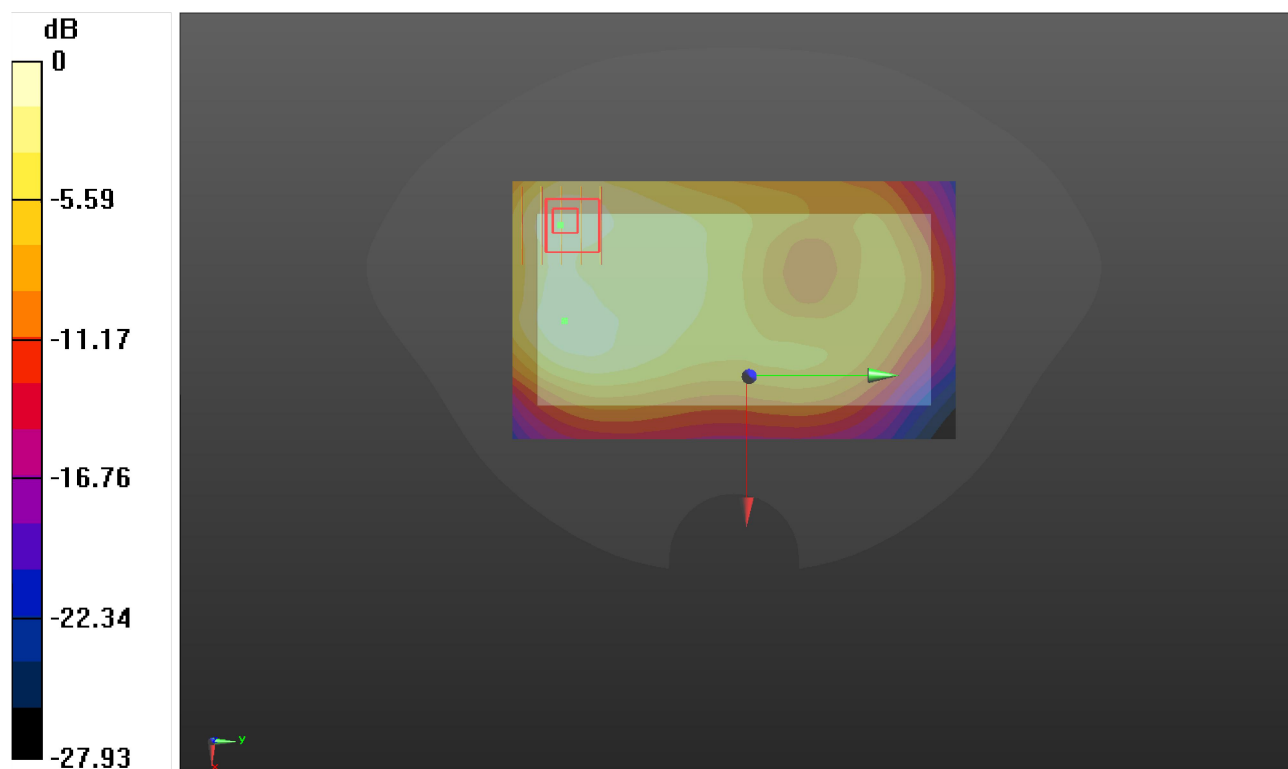
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.51 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.866 W/kg

SAR(1 g) = 0.507 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 0.733 W/kg



0 dB = 0.733 W/kg

P21 LTE 4_QPSK20M_Front Face_1cm_Ch20300_1RB_OS50

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: HSL1750_0525 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.325$ S/m; $\epsilon_r = 40.88$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(8.9, 8.9, 8.9) @ 1745 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.790 W/kg

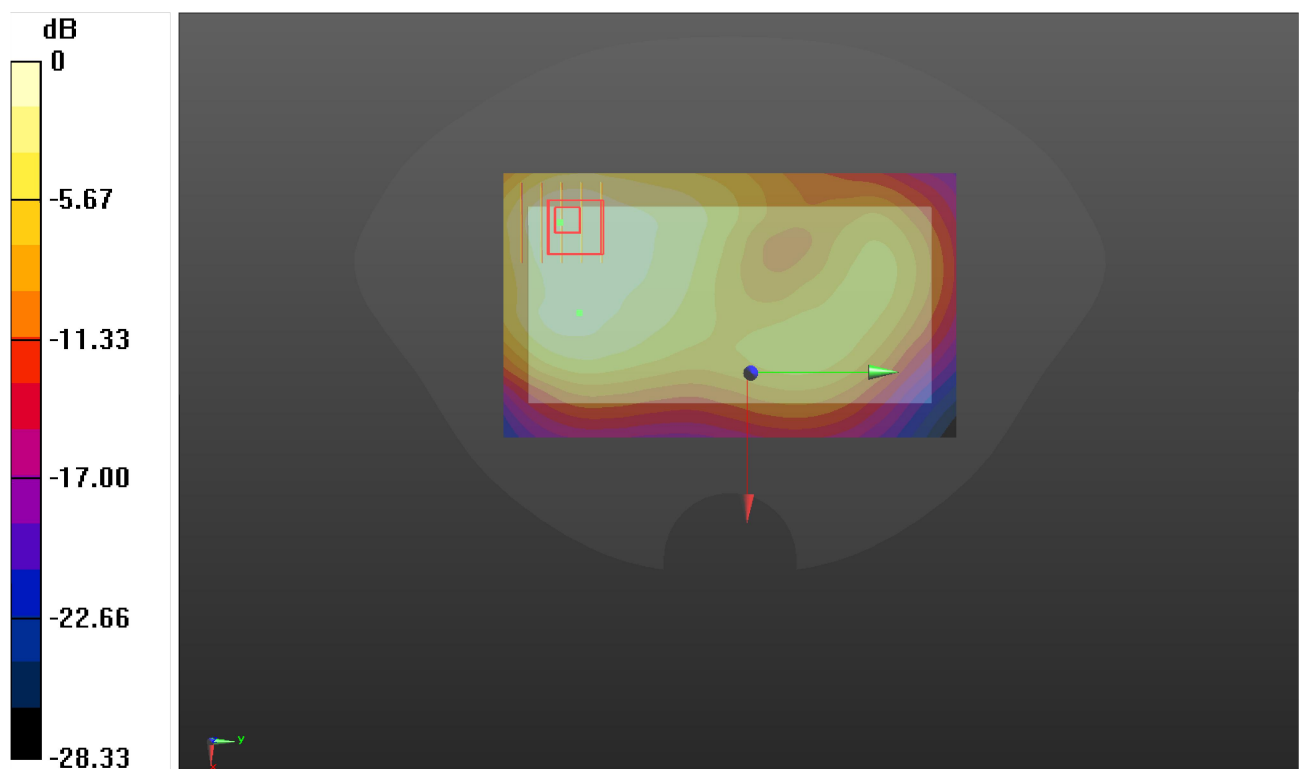
-Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 10.22 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.945 W/kg

SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.355 W/kg

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



P22 LTE 5_QPSK10M_Rear Face_1cm_Ch20525_1RB_OS24

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835_0524 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 43.007$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7612; ConvF(10.57, 10.57, 10.57) @ 836.5 MHz; Calibrated: 01/27/2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1633; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

-Area Scan (71x121x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.542 W/kg

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

Reference Value = 21.33 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.614 W/kg

SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 0.544 W/kg

