



16.4 Product Specific Exposure Conditions

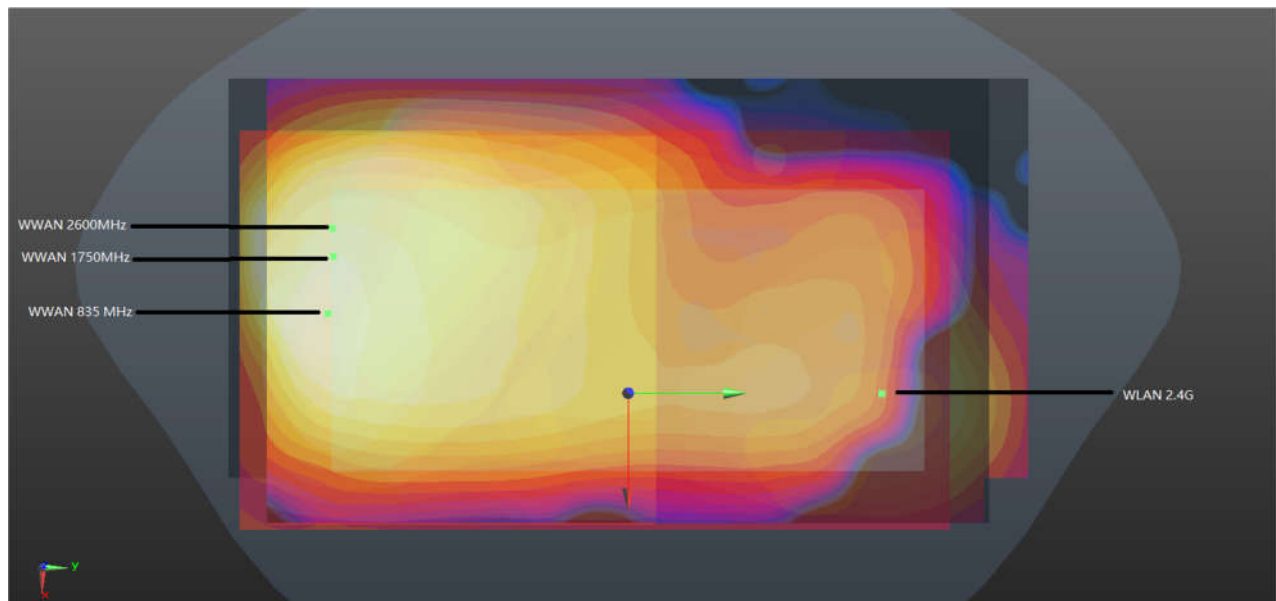
WWAN Band		Exposure Position	1	2	1+2	Case No
			WWAN	WLAN5GHz Ant 4	Summed	
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
GSM	GSM850 Ant 0	Front		2.001	2.00	
		Back	3.259	2.041	5.30	27
		Left side		0.069	0.07	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	2.919		2.92	
	GSM1900 Ant 0	Front	1.298	2.001	3.30	
		Back	1.856	2.041	3.90	
		Left side		0.069	0.07	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	3.238		3.24	
WCDMA	WCDMA II Ant 0	Front	1.403	2.001	3.40	
		Back	2.871	2.041	4.91	28
		Left side		0.069	0.07	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	3.313		3.31	
	WCDMA IV Ant 0	Front	1.384	2.001	3.39	
		Back	3.413	2.041	5.45	29
		Left side		0.069	0.07	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	3.561		3.56	
	WCDMA V Ant 0	Front		2.001	2.00	
		Back	1.408	2.041	3.45	
		Left side		0.069	0.07	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side			0.00	
LTE	LTE Band 2 Ant 0	Front	1.059	2.001	3.06	
		Back	2.373	2.041	4.41	30
		Left side		0.069	0.07	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	2.821		2.82	
	LTE Band 7 Ant 1	Front	2.763	2.001	4.76	31
		Back	3.366	2.041	5.41	32
		Left side	1.435	0.069	1.50	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	1.988		1.99	
	LTE Band 41 Ant 1	Front	2.774	2.001	4.78	33
		Back	2.747	2.041	4.79	34
		Left side	1.305	0.069	1.37	
		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	2.170		2.17	
	LTE Band 66 Ant 0	Front	1.496	2.001	3.50	
		Back	2.657	2.041	4.70	35
		Left side		0.069	0.07	

		Right side		0.780	0.78	
		Top side		3.069	3.07	
		Bottom side	3.061		3.06	

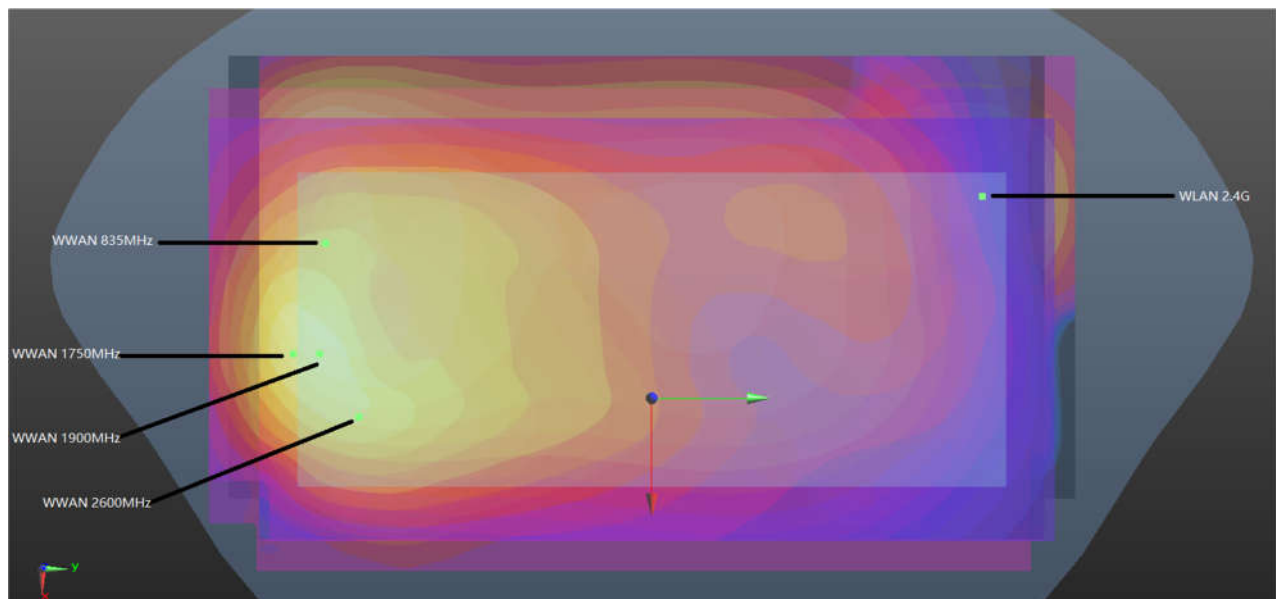
16.5 SPLSR Evaluation and Analysis

General Note:

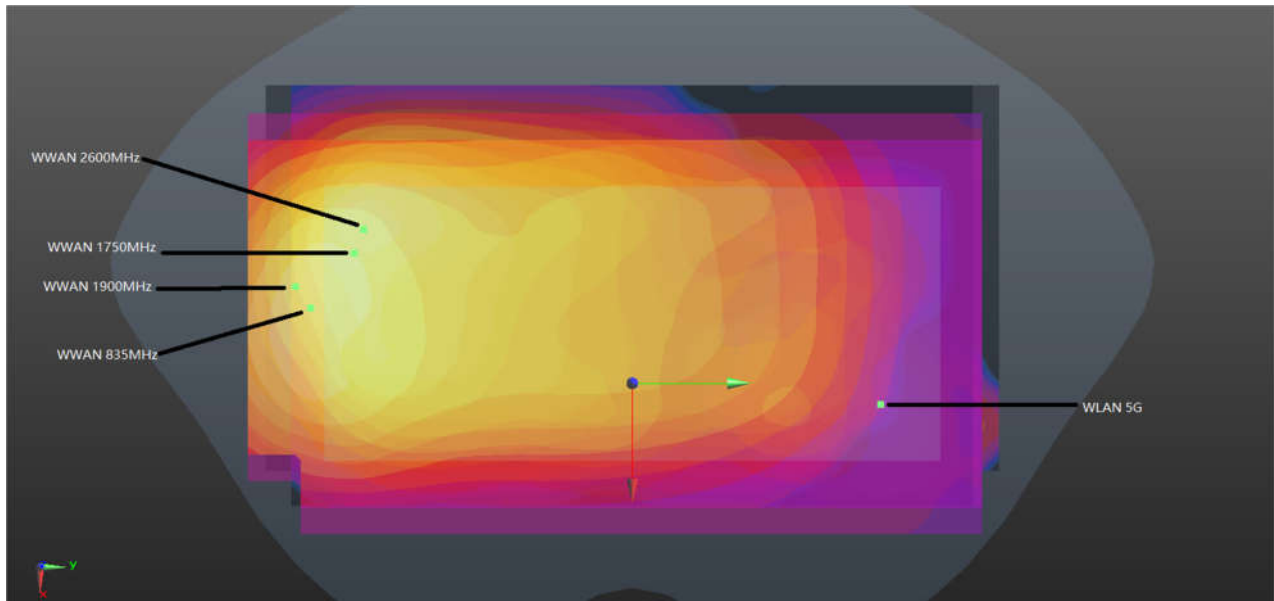
- When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
- $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.



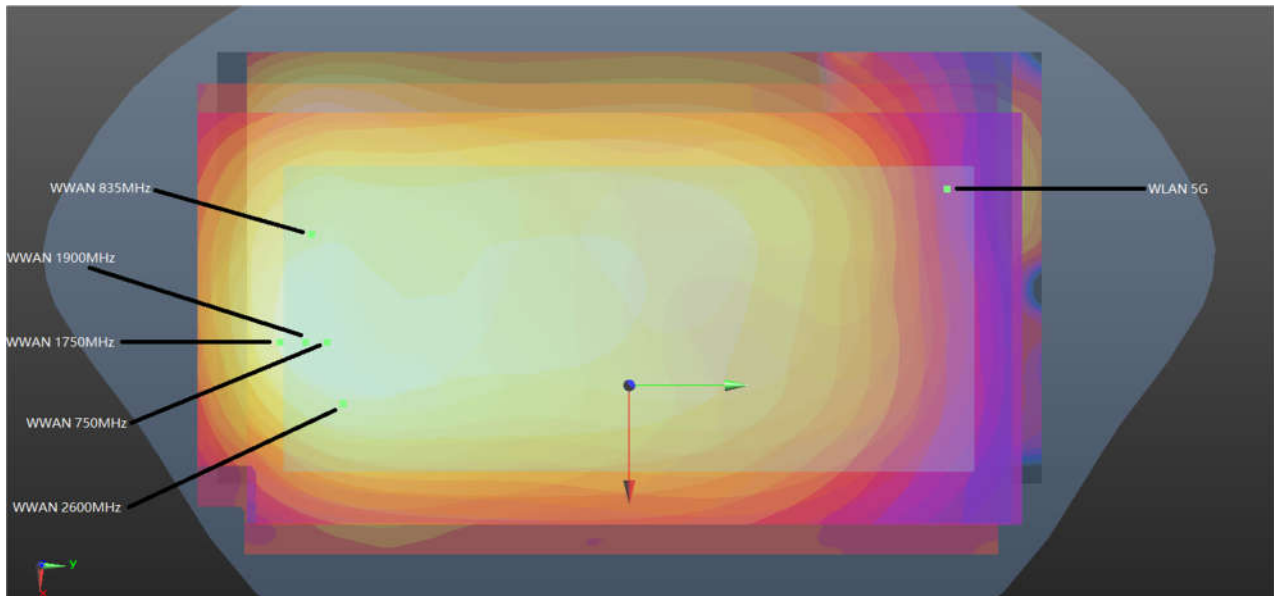
WWAN+ WLAN 2.4GHz_Front 5mm



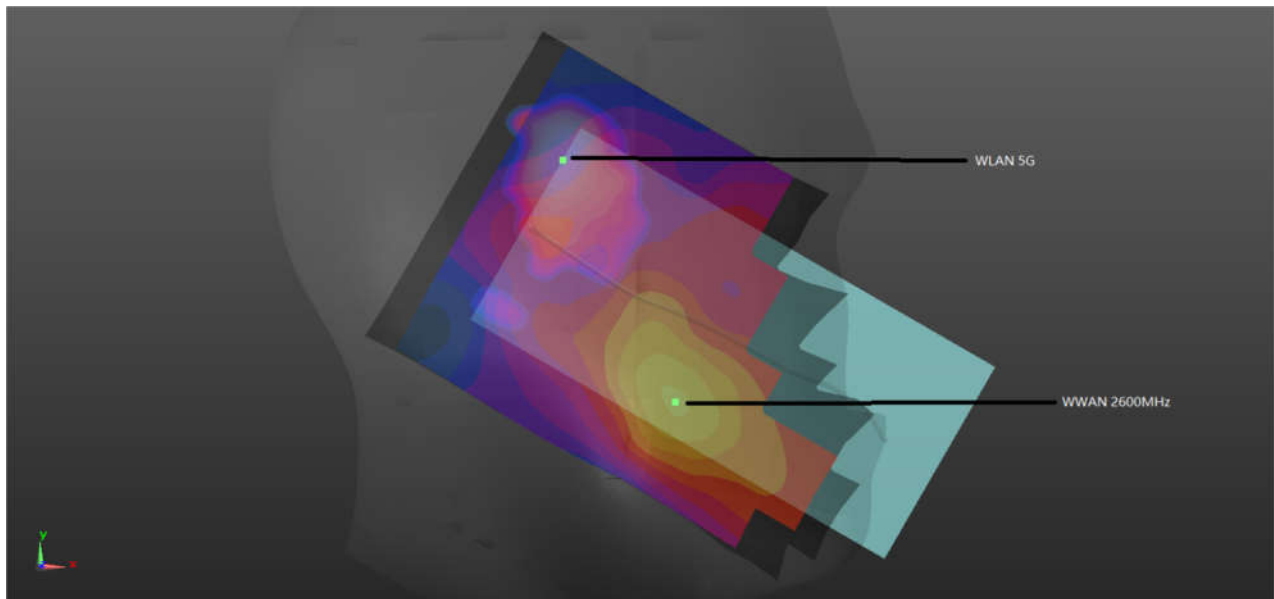
WWAN+ WLAN 2.4GHz_Back 5mm



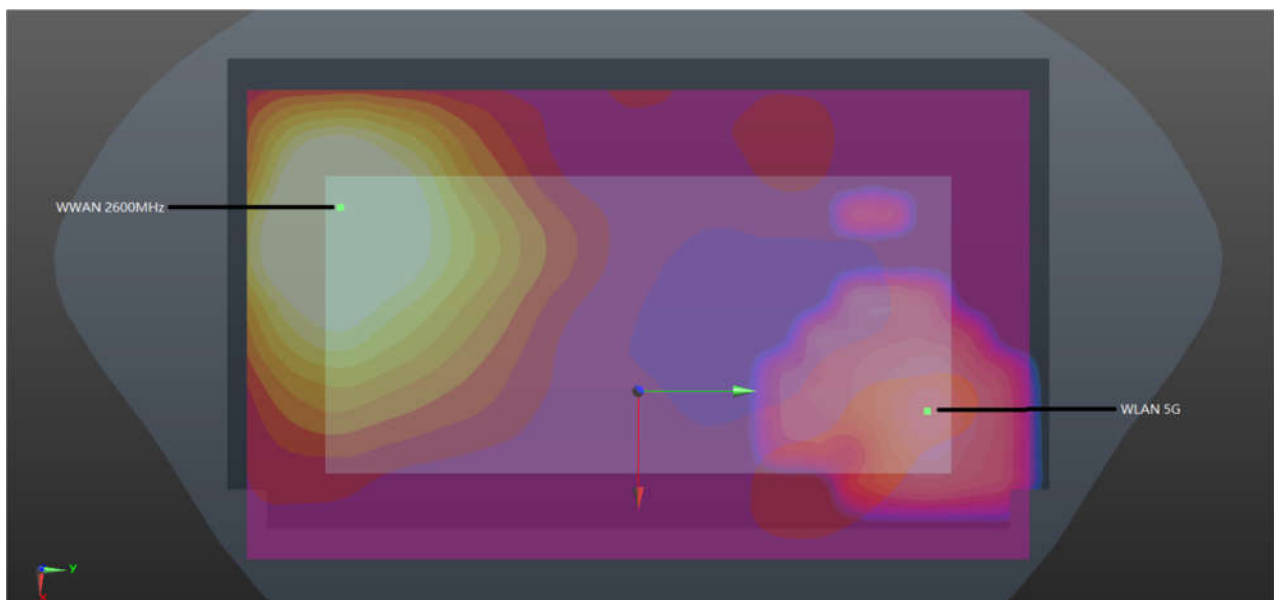
WWAN+ WLAN 5GHz_Front 5mm



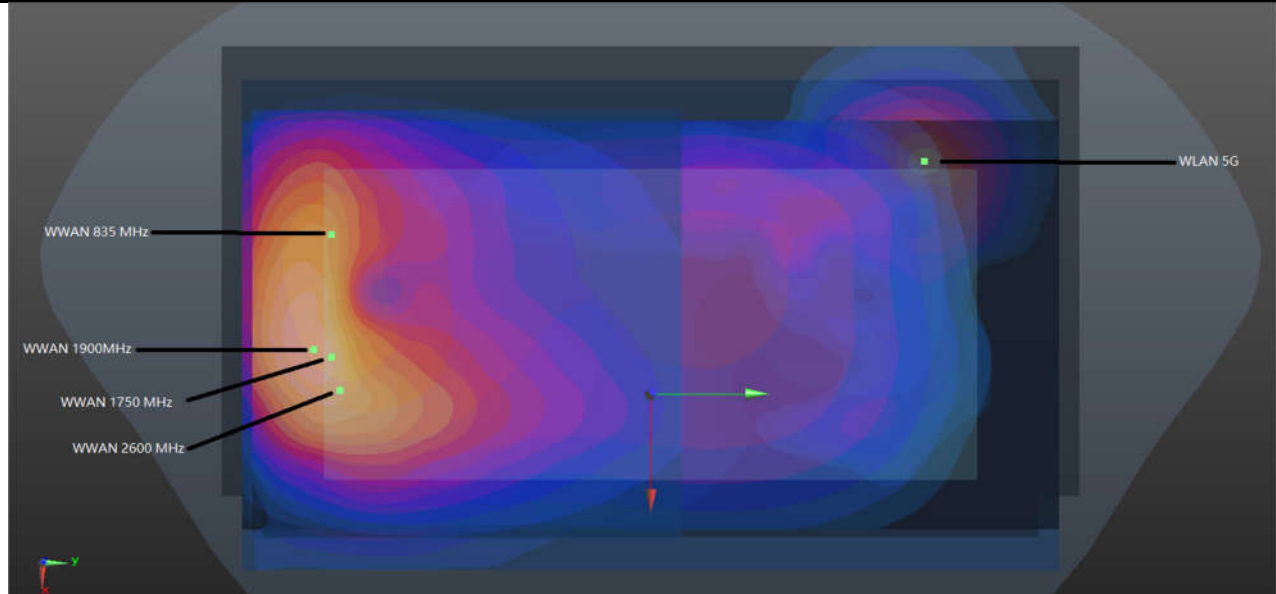
WWAN+ WLAN 5GHz_Back 5mm



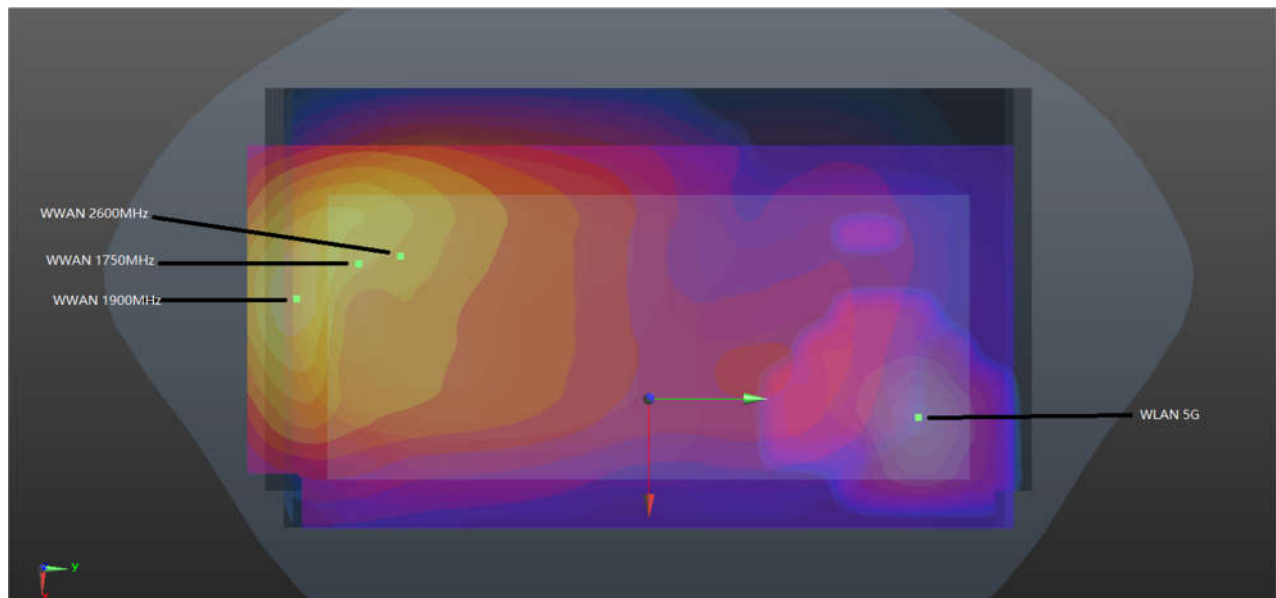
WWAN+ WLAN 5GHz_Left Cheek



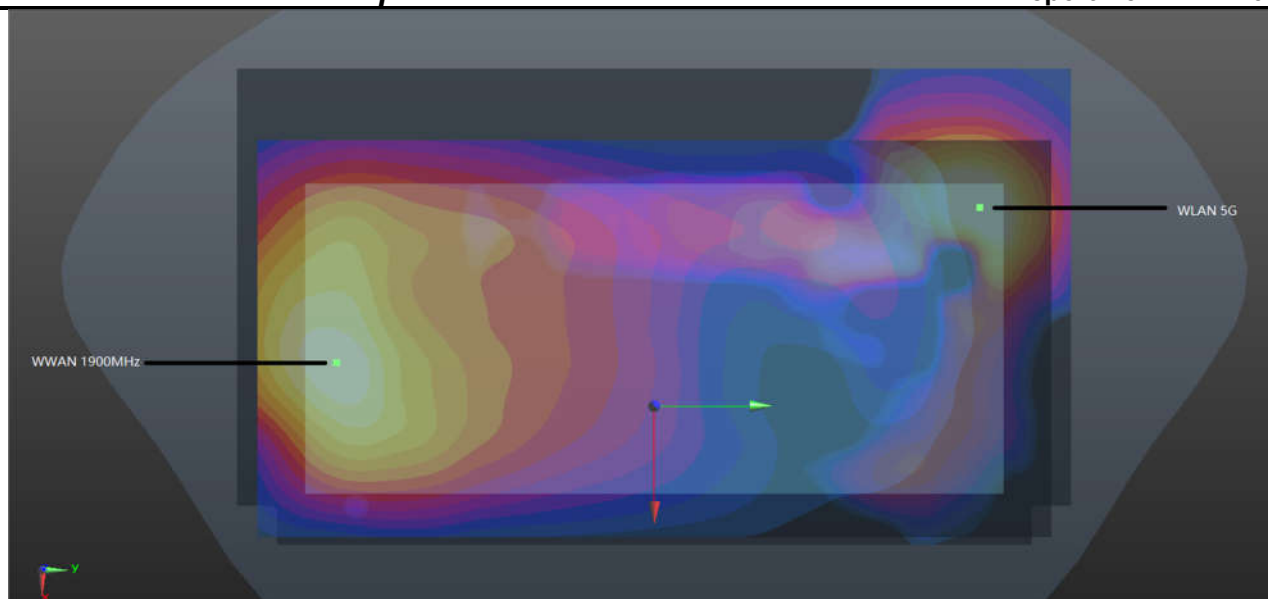
WWAN+ WLAN 5GHz _Front 0mm



WWAN+ WLAN 5GHz _Back 0mm



WWAN+ WLAN 5GHz_Front 12mm


WWAN+ WLAN 5GHz _Back 20mm
For Head:

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	LTE Band 7 Ant 1	Left Cheek	0.572	0	49.68	-59.96	0.2	87.4	1.72	0.03	Not required
	WALN2.4G Ant4		1.146	0	7.02	16.27	-0.89				
Case 2	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41 Ant 1	Left Cheek	0.469	0	47.55	-60.46	0.09	86.8	1.62	0.02	Not required
	WALN2.4G Ant4		1.146	0	7.02	16.27	-0.89				

For Hotspot:

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 3	GSM850 Ant 0	Back	1.141	5	-10.7	-87.4	0.85	160.5	1.70	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 4	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM850 Ant 0	Back	1.141	5	-10.7	-87.4	0.85	165.9	1.80	0.01	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900 Ant 0	Back	1.161	5	3.1	-86	0.92	161.1	1.72	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	GSM1900 Ant 0	Back	1.161	5	3.1	-86	0.92	161.6	1.82	0.02	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II Ant 0	Back	1.331	5	2.8	-87	0.97	162.0	1.89	0.02	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA II Ant 0	Back	1.331	5	2.8	-87	0.97	162.6	1.99	0.02	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				



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Case	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 9	WCDMA IV Ant 0	Front	1.027	5	-13.5	-85.9	0.83	159.3	1.83	0.02	Not required
	WALN2.4G Ant 4		0.798	5	22.8	69.2	0.43				
Case 10	WCDMA IV Ant 0	Front	1.027	5	-13.5	-85.9	0.83	166.6	1.75	0.01	Not required
	WALN5G Ant 4		0.727	5	-24.2	80.4	0.35				
Case 11	WCDMA IV Ant 0	Back	1.357	5	7.5	-85.4	0.98	161.4	1.92	0.02	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 12	WCDMA IV Ant 0	Back	1.357	5	7.5	-85.4	0.98	160.3	2.02	0.02	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 13	WCDMA V Ant 0	Front	0.893	5	-3.8	-84.7	0.85	156.2	1.69	0.01	Not required
	WALN2.4G Ant 4		0.798	5	22.8	69.2	0.43				
Case 14	WCDMA V Ant 0	Front	0.893	5	-3.8	-84.7	0.85	166.4	1.62	0.01	Not required
	WALN5G Ant 4		0.727	5	-24.2	80.4	0.35				
Case 15	WCDMA V Ant 0	Back	1.209	5	-15.4	-87.1	0.83	159.8	1.77	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 16	WCDMA V Ant 0	Back	1.209	5	-15.4	-87.1	0.83	166.8	1.87	0.02	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 17	LTE Band 2 Ant 0	Back	1.17	5	3	-87.5	0.93	162.6	1.73	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 18	LTE Band 2 Ant 0	Back	1.17	5	3	-87.5	0.93	163.1	1.83	0.02	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 19	LTE Band 7 Ant 1	Back	1.078	5	23.2	-80.4	1.08	160.7	1.64	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 20	LTE Band 7 Ant 1	Back	1.078	5	23.2	-80.4	1.08	153.8	1.74	0.01	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 21	LTE Band 41 Ant 1	Front	0.899	5	-30.1	-76.6	0.48	155.1	1.70	0.01	Not required
	WALN2.4G Ant 4		0.798	5	22.8	69.2	0.43				
Case 22	LTE Band 41 Ant 1	Front	0.899	5	-30.1	-76.6	0.48	157.1	1.63	0.01	Not required
	WALN5G Ant 4		0.727	5	-24.2	80.4	0.35				

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Form version. : 200414



Case	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 23	LTE Band 41 Ant 1	Back	1.147	5	22.7	-75.8	0.95	156.2	1.71	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 24	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 24	LTE Band 41 Ant 1	Back	1.147	5	22.7	-75.8	0.95	149.2	1.81	0.02	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				
Case 25	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 25	LTE Band 66 Ant 0	Back	1.1	5	4.5	-87.4	0.95	162.7	1.66	0.01	Not required
	WALN2.4G Ant 4		0.562	5	-26.8	72.3	0.39				
Case 26	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 26	LTE Band 66 Ant 0	Back	1.1	5	4.5	-87.4	0.95	162.7	1.76	0.01	Not required
	WALN5G Ant 4		0.661	5	30.8	73.2	0.64				

For Body Worn:

Case	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 36	GSM850 Ant 0	Front	0.704	5	-2.9	-93.6	0.74	175.3	1.83	0.01	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 37	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 37	GSM850 Ant 0	Back	1.141	5	-10.7	-87.4	0.85	165.9	2.16	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 38	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 38	GSM1900 Ant 0	Front	1.161	5	-12.1	-98.1	0.68	178.9	2.28	0.02	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 39	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 39	GSM1900 Ant 0	Back	1.161	5	3.1	-86	0.92	161.6	2.18	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 40	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 40	WCDMA II Ant 0	Front	0.7	5	-14.3	-99.2	0.77	179.9	1.82	0.01	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 41	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 41	WCDMA II Ant 0	Back	1.331	5	2.8	-87	0.97	162.6	2.35	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 42	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 42	WCDMA IV Ant 0	Front	1.027	5	-13.5	-85.9	0.83	166.6	2.15	0.02	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 43	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 43	WCDMA IV Ant 0	Back	1.357	5	7.5	-85.4	0.98	160.3	2.38	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 44	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 44	WCDMA V Ant 0	Front	0.893	5	-3.8	-84.7	0.85	166.4	2.02	0.02	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 45	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 45	Band	Position	SAR (W/kg)	(mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR



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	WCDMA V Ant 0	Back	1.209	5	-15.4	-87.1	0.83	166.8	2.23	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 46	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 2 Ant 0	Front	0.624	5	-15.2	-96.2	0.79	176.8	1.75	0.01	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 47	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 2 Ant 0	Back	1.17	5	3	-87.5	0.93	163.1	2.19	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 48	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7 Ant 1	Front	0.718	5	-28.5	-74.8	0.55	155.3	1.84	0.02	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 49	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7 Ant 1	Back	1.078	5	23.2	-80.4	1.08	153.8	2.10	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 50	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 13 Ant 0	Back	0.575	5	6.1	-83.4	0.92	158.5	1.60	0.01	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 51	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 26 Ant 0	Front	0.491	5	-4.7	-87	0.81	168.5	1.61	0.01	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 52	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 26 Ant 0	Back	0.788	5	-9	-88.9	0.85	166.9	1.81	0.01	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 53	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41 Ant 1	Front	0.899	5	-30.1	-76.6	0.48	157.1	2.02	0.02	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 54	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 41 Ant 1	Back	1.147	5	22.7	-75.8	0.95	149.2	2.17	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				
Case 55	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66 Ant 0	Front	0.791	5	-15.8	-86.8	0.81	167.4	1.91	0.02	Not required
	WALN5G Ant 4		1.123	5	-24.2	80.4	0.35				
Case 56	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66 Ant 0	Back	1.1	5	4.5	-87.4	0.95	162.7	2.12	0.02	Not required
	WALN5G Ant 4		1.022	5	30.8	73.2	0.64				

For Body Worn (Sensor off):

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 57	GSM1900 Ant 0	Front	0.707	12	-15.5	-89.1	0.69	173.2	1.72	0.01	Not required
	WALN5G Ant 4		1.012	12	36.2	76.2	0.79				
Case 58	WCDMA II Ant 0	Front	1.22	12	-14.3	-87.9	0.81	171.7	2.23	0.02	Not required
	WALN5G Ant 4		1.012	12	36.2	76.2	0.79				
Case 59	WCDMA II Ant 0	Back	0.794	20	7.5	-86.7	0.83	176.1	1.62	0.01	Not required
	WALN5G Ant 4		0.828	20	-24.9	86.4	0.58				
Case 60	WCDMA IV Ant 0	Front	0.787	12	-8.6	-82.6	1.01	165.0	1.80	0.01	Not required
	WALN5G Ant 4		1.012	12	36.2	76.2	0.79				
Case 61	LTE Band 2 Ant 0	Front	0.965	12	-12.2	-83.9	0.72	167.3	1.98	0.02	Not required
	WALN5G Ant 4		1.012	12	36.2	76.2	0.79				
Case 62	LTE Band 7 Ant 1	Front	0.692	12	-33.9	-78.6	0.71	169.9	1.70	0.01	Not required
	WALN5G Ant 4		1.012	12	36.2	76.2	0.79				
Case 63	LTE Band 66 Ant 0	Front	0.743	12	-8.8	-81.1	1.16	163.6	1.76	0.01	Not required
	WALN5G Ant 4		1.012	12	36.2	76.2	0.79				



For 10g SAR:

Case	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 27	GSM850 Ant 0	Back	3.259	0	-14.5	-85	0.76	163.4	5.30	0.07	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				
Case 28	WCDMA II Ant 0	Back	2.871	0	4.4	-84.1	0.83	165.2	4.91	0.07	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				
Case 29	WCDMA IV Ant 0	Back	3.413	0	6.8	-87	0.98	168.5	5.45	0.08	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				
Case 30	LTE Band 2 Ant 0	Back	2.373	0	5.1	-85.3	0.81	166.5	4.41	0.06	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				
Case 31	LTE Band 7 Ant 1	Front	2.763	0	-31	-78.1	0.72	171.3	4.76	0.06	Not required
	WALN5G Ant 4		2.001	0	30.7	81.7	0.76				
Case 32	LTE Band 7 Ant 1	Back	3.366	0	24	-77.2	0.69	163.6	5.41	0.08	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				
Case 33	LTE Band 41 Ant 1	Front	2.774	0	-30.4	-77.5	0.71	170.5	4.78	0.06	Not required
	WALN5G Ant 4		2.001	0	30.7	81.7	0.76				
Case 34	LTE Band 41 Ant 1	Back	2.747	0	24.5	-77.8	0.62	164.3	4.79	0.06	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				
Case 35	LTE Band 66 Ant 0	Back	2.657	0	6.2	-89.9	0.78	171.2	4.70	0.06	Not required
	WALN5G Ant 4		2.041	0	-28.3	77.8	0.72				

17. Supplemental Tuner Tests Results

General Note:

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 144 tuner states (except B4/66 is a separate group with 5 tuner states) are divided evenly among bands (except for GSM 850/1900 and LTE7/38/41), mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
3. According to workshop 2019, if any single point SAR measurement result is $> 1.2 \text{ W/kg}$ for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination. So we verified the single point SAR that bands with SAR value high than 1.2 W/Kg .
4. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

17.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

Test Engineer : Martin Li, Varus Wang, Light Wang, Ricky Gu, Damon Zhu

18. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

19. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] 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", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [11] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [12] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [13] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

-----THE END-----



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3-SN:1087

Communication System: ; Frequency: 750.0

Medium: HSL. Medium parameters used: $f = 750.0$ MHz; $\sigma = 0.916$ S/m; $\epsilon_r = 41.9$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

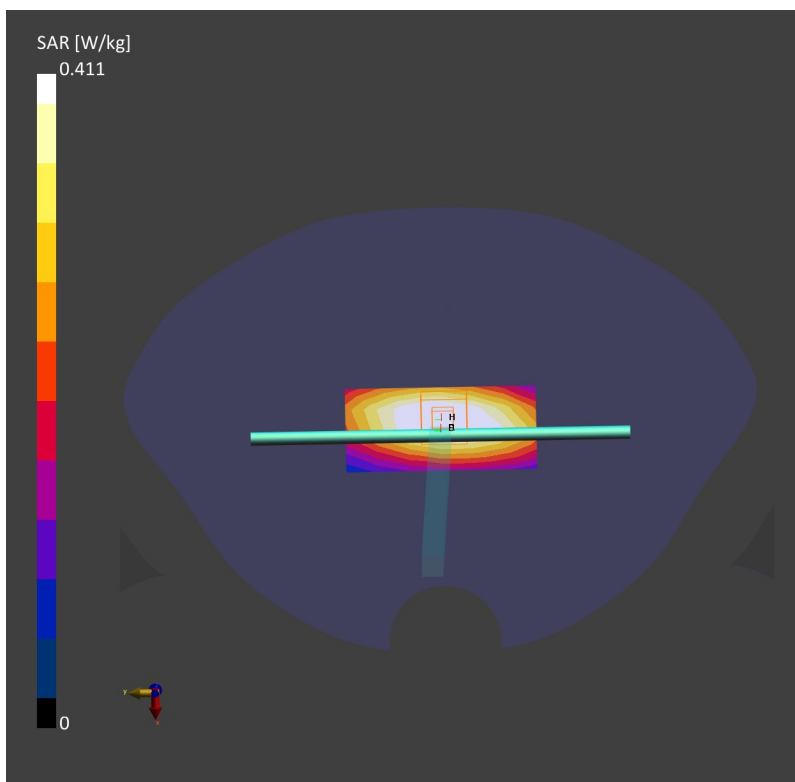
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.408 W/kg; SAR (10g) = 0.275 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.03 dB

SAR (1g) = 0.411 W/kg; SAR (10g) = 0.268 W/kg;



System Check_Head_835MHz

DUT: D835V2-SN:4d258

Communication System: ; Frequency: 835.0

Medium: HSL. Medium parameters used: $f = 835.0$ MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 40.9$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

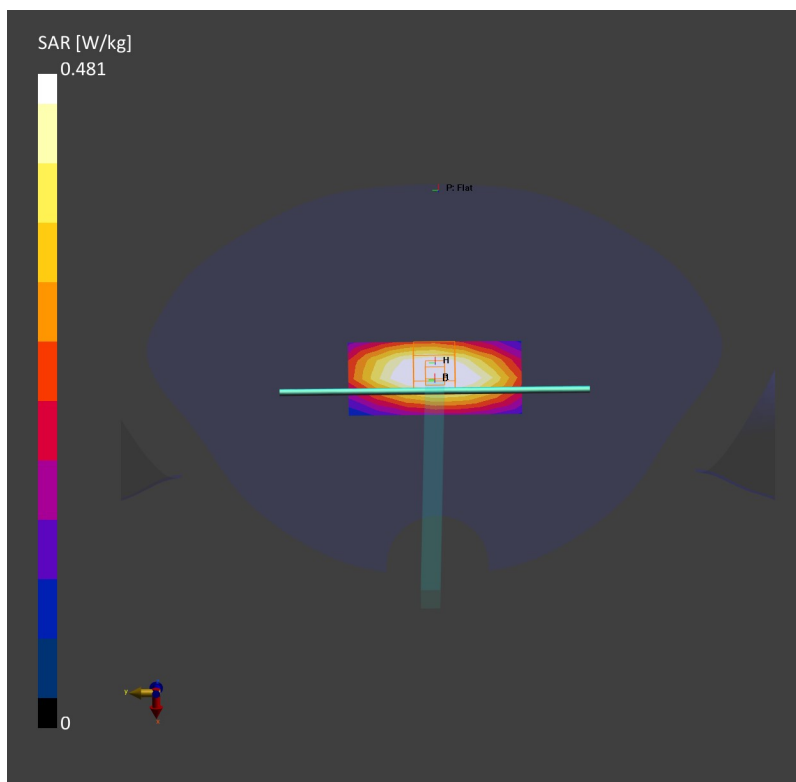
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.481 W/kg; SAR (10g) = 0.317 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.06 dB

SAR (1g) = 0.481 W/kg; SAR (10g) = 0.303 W/kg;



System Check_Head_1750MHz

DUT:D1750V2-SN:1090

Communication System: ; Frequency: 1750.0

Medium: HSL. Medium parameters used: $f= 1750.0$ MHz; $\sigma= 1.40$ S/m; $\epsilon_r= 40.5$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

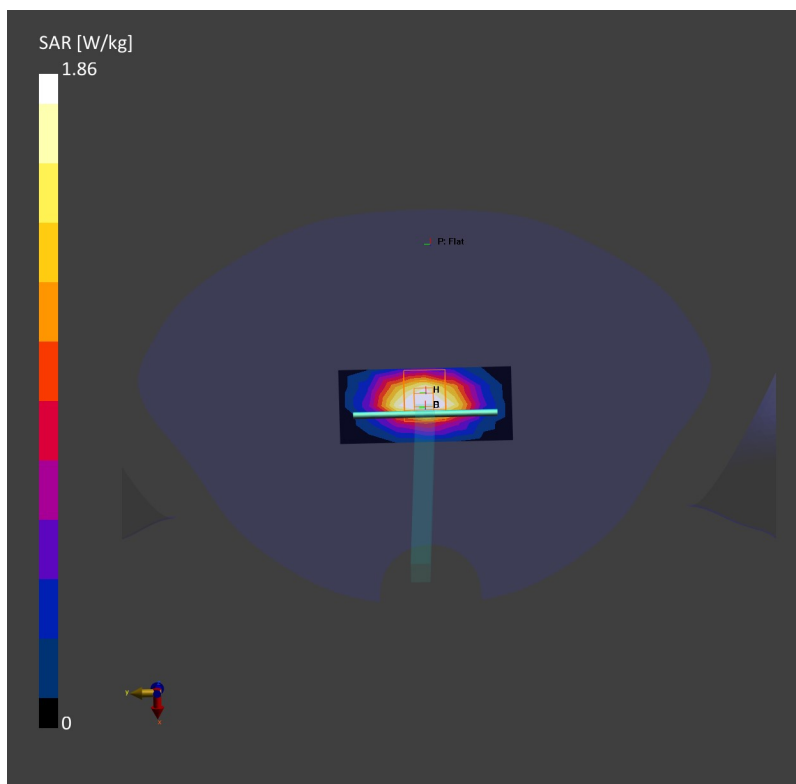
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 1.83 W/kg; SAR (10g) = 0.997 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.01 dB

SAR (1g) = 1.86 W/kg; SAR (10g) = 0.985 W/kg;



System Check_Head_1900MHz

DUT:D1900V2-SN:5d170

Communication System: ; Frequency: 1900.0

Medium: HSL. Medium parameters used: $f = 1900.0$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.8°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

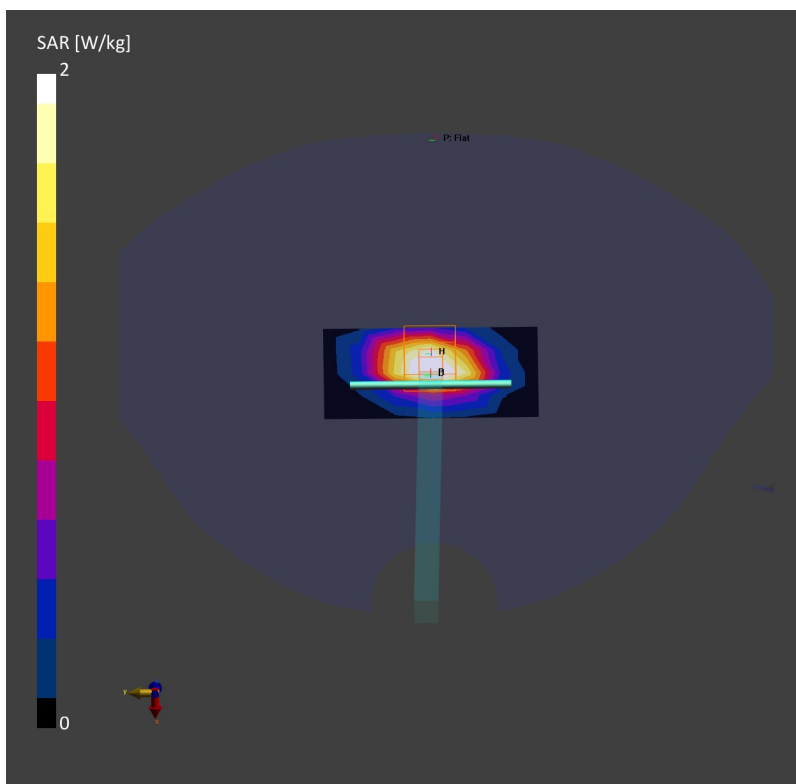
Area Scan (40.0 mm x 90.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 1.93 W/kg; SAR (10g) = 1.03 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.04 dB

SAR (1g) = 2.00 W/kg; SAR (10g) = 1.03 W/kg;



System Check_Head_2600MHz

DUT:D2600V2-SN:1061

Communication System: ; Frequency: 2600.0

Medium: HSL. Medium parameters used: $f= 2600.0$ MHz; $\sigma= 1.93$ S/m; $\epsilon_r= 39.0$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.26, 7.26, 7.26); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

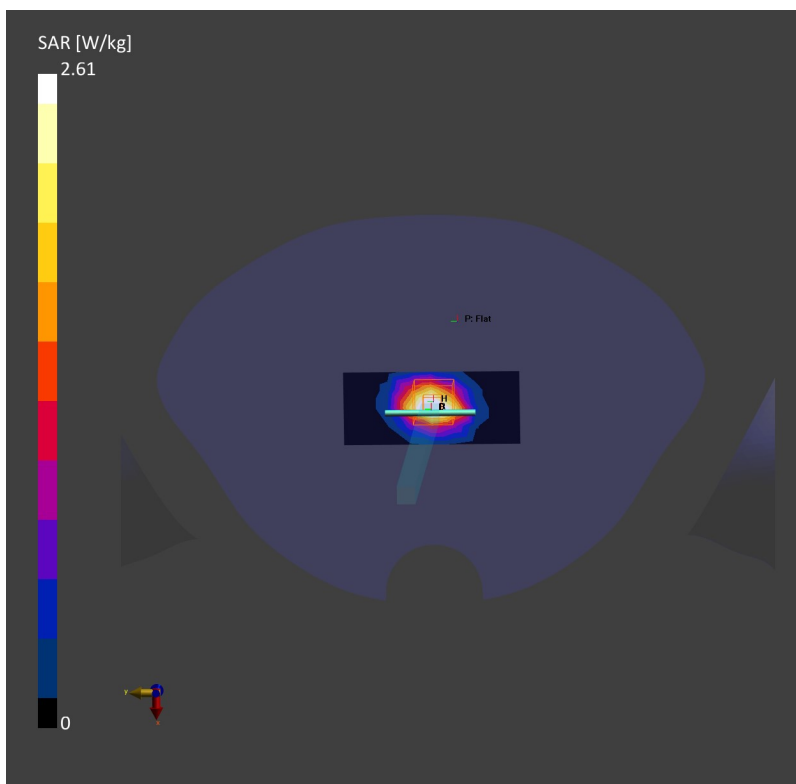
Area Scan (40.0 mm x 96.0 mm): Measurement Grid: 12.0 mm x 12.0 mm

SAR (1g) = 2.48 W/kg; SAR (10g) = 1.12 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 5.0 mm x 5.0 mm x 5.0 mm

Power Drift = -0.03 dB

SAR (1g) = 2.61 W/kg; SAR (10g) = 1.16 W/kg;



System Check_Head_750MHz**DUT: D750V2 - SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 43.056$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(6.48, 6.48, 6.48); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2021.12.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

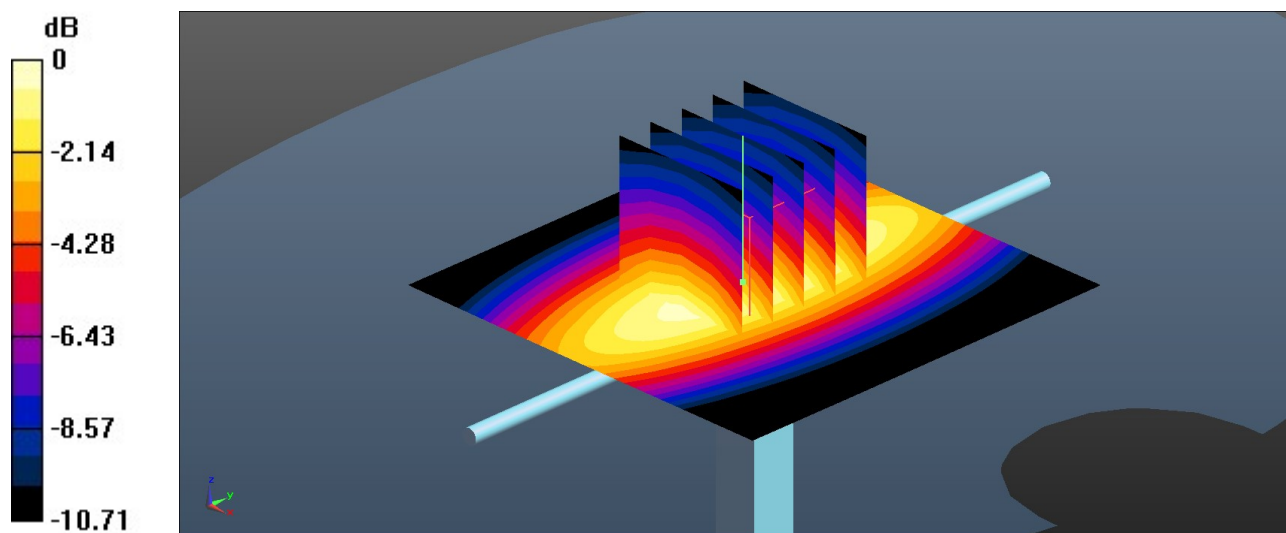
Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.567 W/kg**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.80 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.654 W/kg

SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.574 W/kg



0 dB = 0.574 W/kg = -2.41 dBW/kg

System Check_Head_835MHz**DUT: D835V2 - SN:4d258**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 835$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 42.773$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(6.23, 6.23, 6.23); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2021.12.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.682 W/kg

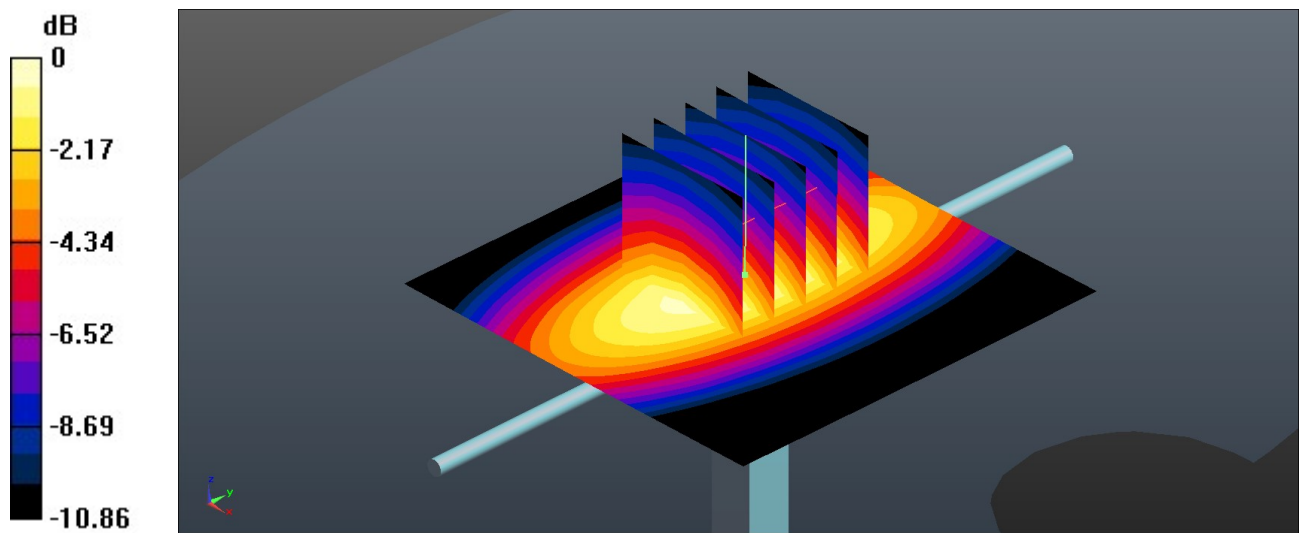
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.00 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.804 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.697 W/kg



0 dB = 0.697 W/kg = -1.57 dBW/kg

System Check_Head_1750MHz**DUT: D1750V2 - SN:1090**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.342$ S/m; $\epsilon_r = 39.559$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(5.52, 5.52, 5.52); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2021.12.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.77 W/kg

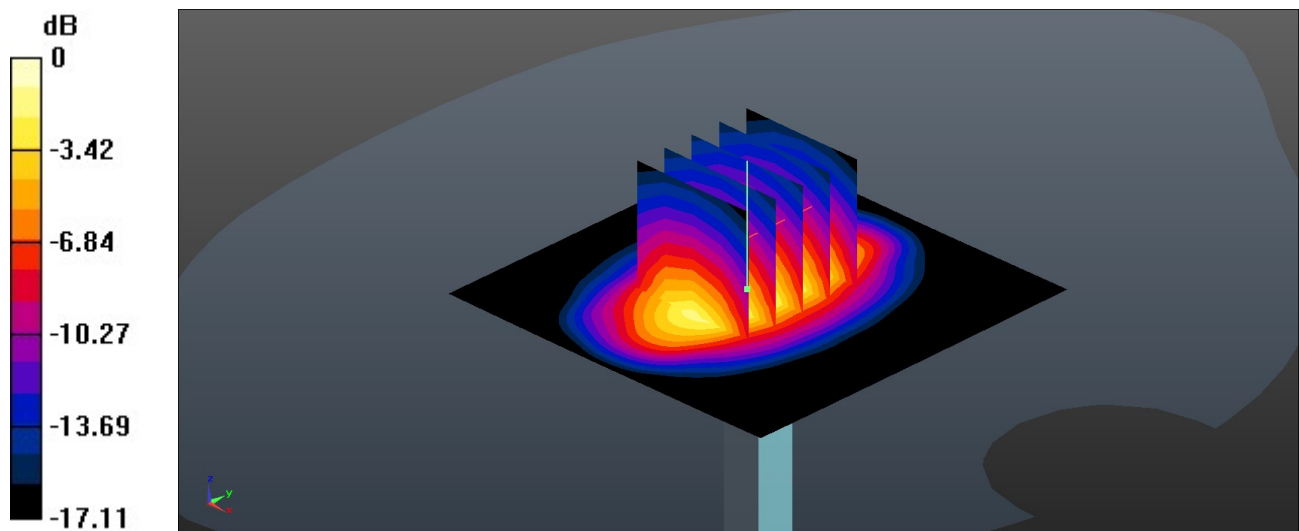
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 44.94 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 1.8 W/kg; SAR(10 g) = 0.948 W/kg

Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

System Check_Head_1900MHz**DUT: D1900V2 - SN:5d170**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.422$ S/m; $\epsilon_r = 39.31$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(5.28, 5.28, 5.28); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2021.12.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.23 W/kg

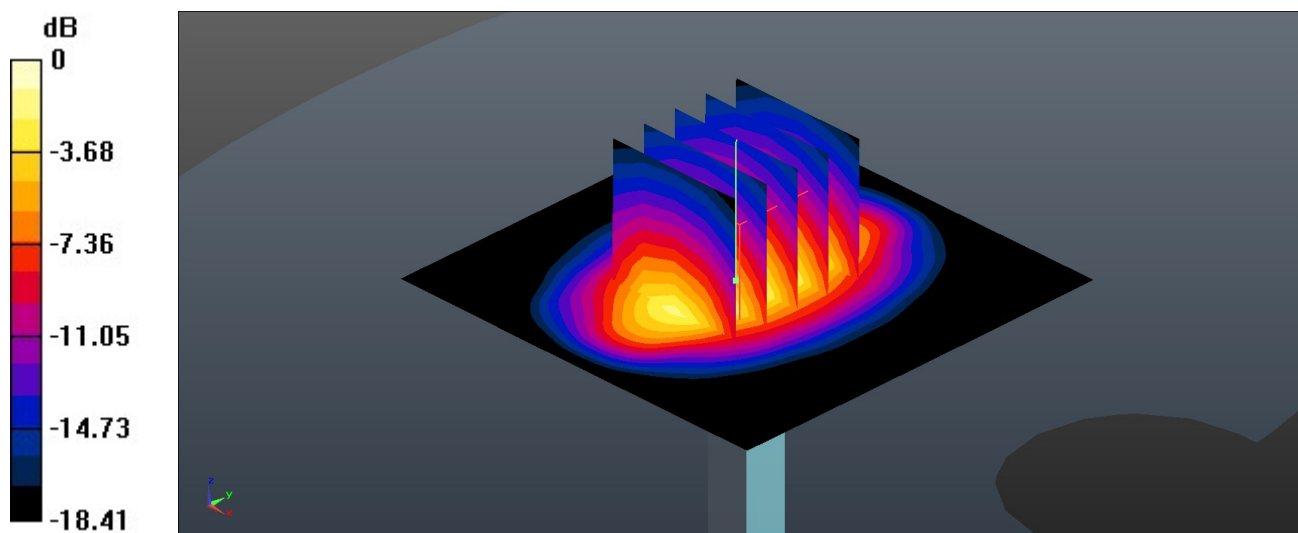
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 48.38 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.90 W/kg

SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.06 W/kg

Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

System Check_Head_2600MHz**DUT: D2600V2 - SN:1061**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.976$ S/m; $\epsilon_r = 40.583$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: ES3DV3 - SN3279; ConvF(4.47, 4.47, 4.47); Calibrated: 2021.8.24
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1338; Calibrated: 2021.12.1
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1842
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

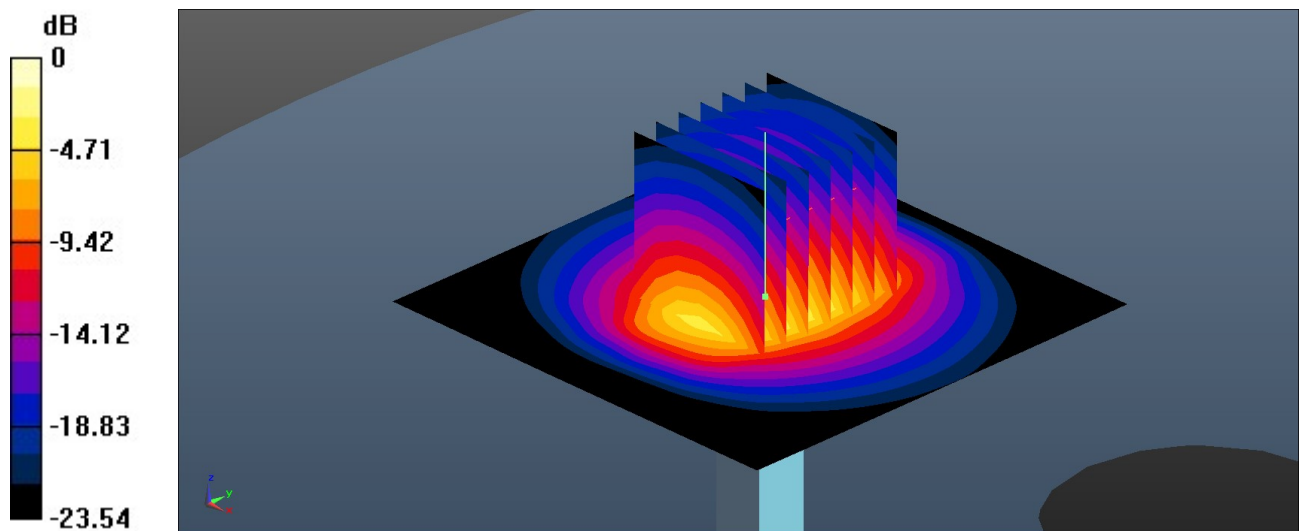
Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.53 W/kg**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.43 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 5.99 W/kg

SAR(1 g) = 2.69 W/kg; SAR(10 g) = 1.19 W/kg

Maximum value of SAR (measured) = 4.69 W/kg



0 dB = 4.69 W/kg = 6.71 dBW/kg

System Check_Head_2450MHz**DUT: D2450V2 - SN:924**

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

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 40.795$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(7.53, 7.53, 7.53); Calibrated: 2021.6.24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1691; Calibrated: 2021.10.4
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.44 W/kg

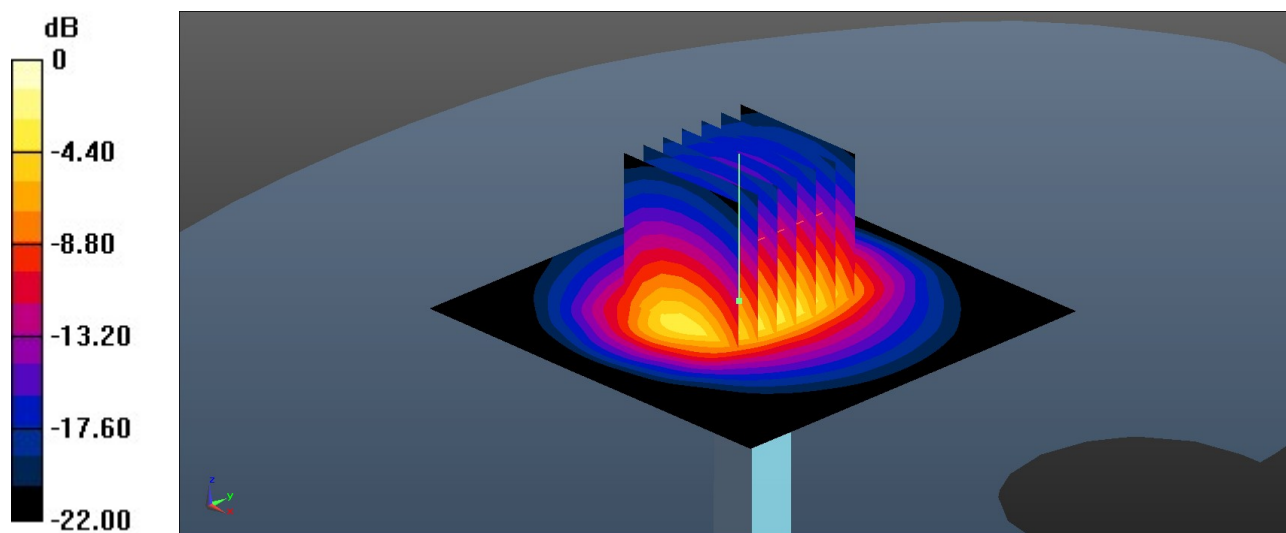
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 39.28 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 5.31 W/kg

SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.16 W/kg

Maximum value of SAR (measured) = 3.34 W/kg



0 dB = 3.34 W/kg = 5.24 dBW/kg

System Check_Head_5250MHz**DUT: D5GHzV2-SN:1113**

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL_5250 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.553$ S/m; $\epsilon_r = 36.096$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(5.38, 5.38, 5.38); Calibrated: 2021.6.24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1691; Calibrated: 2021.10.4
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.13 W/kg

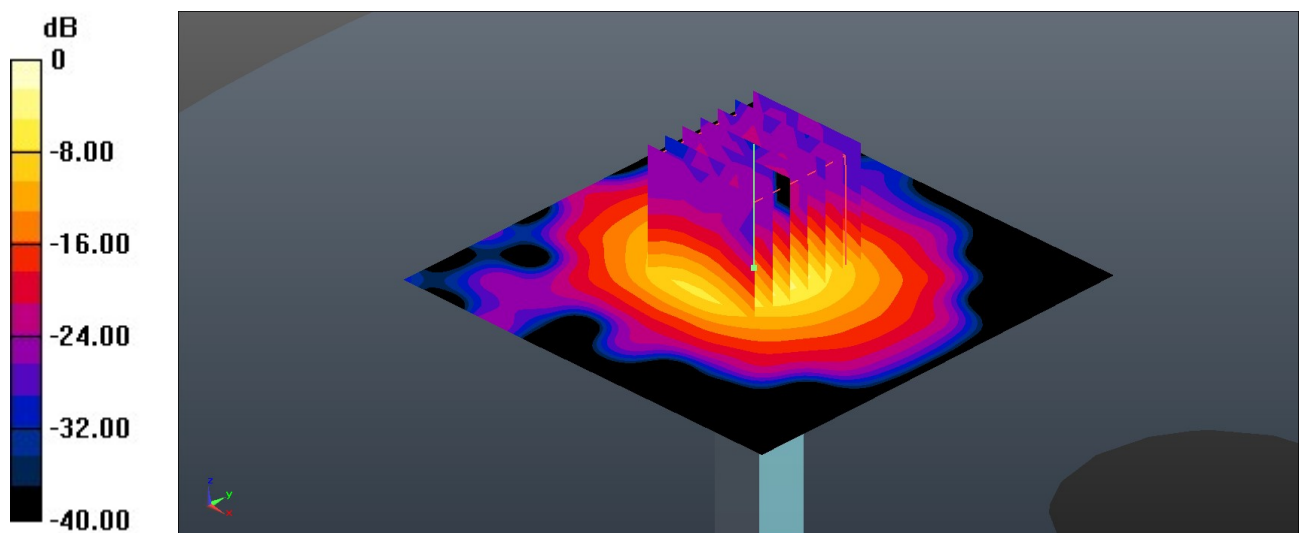
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.98 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 14.5 W/kg

SAR(1 g) = 3.72 W/kg; SAR(10 g) = 1.07 W/kg

Maximum value of SAR (measured) = 9.03 W/kg



0 dB = 9.03 W/kg = 9.56 dBW/kg

System Check_Head_5600MHz**DUT: D5GHzV2-SN:1113**

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL 5000 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.924$ S/m; $\epsilon_r = 35.567$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.68, 4.68, 4.68); Calibrated: 2021.6.24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1691; Calibrated: 2021.10.4
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.90 W/kg

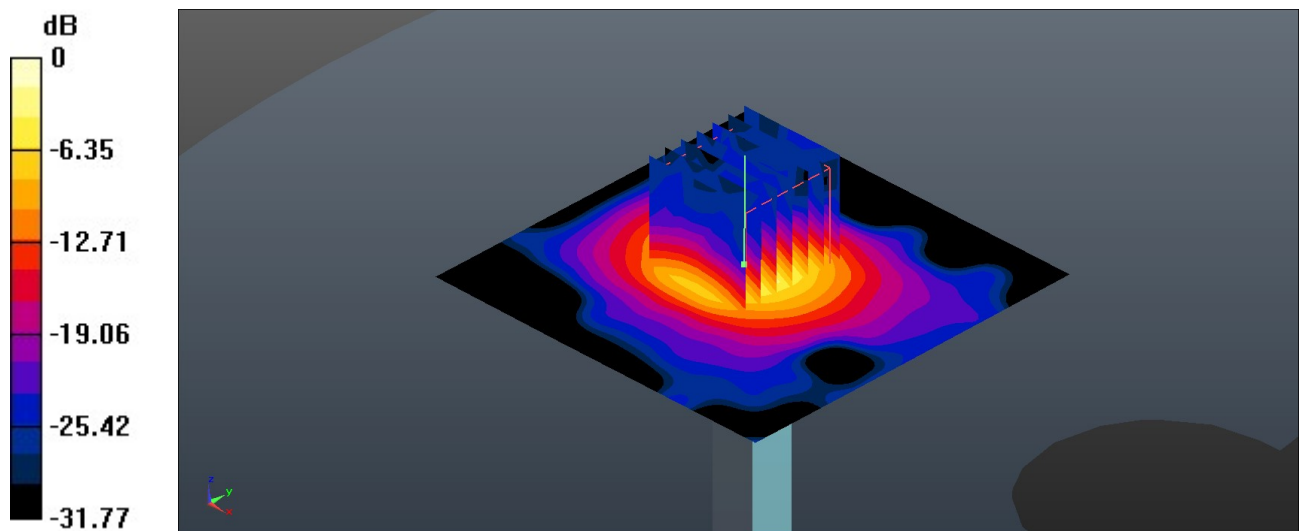
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 43.44 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 3.86 W/kg; SAR(10 g) = 1.13 W/kg

Maximum value of SAR (measured) = 9.96 W/kg



System Check_Head_5750MHz**DUT: D5GHzV2-SN:1113**

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL 5000 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.1$ S/m; $\epsilon_r = 35.378$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(4.82, 4.82, 4.82); Calibrated: 2021.6.24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1691; Calibrated: 2021.10.4
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.86 W/kg

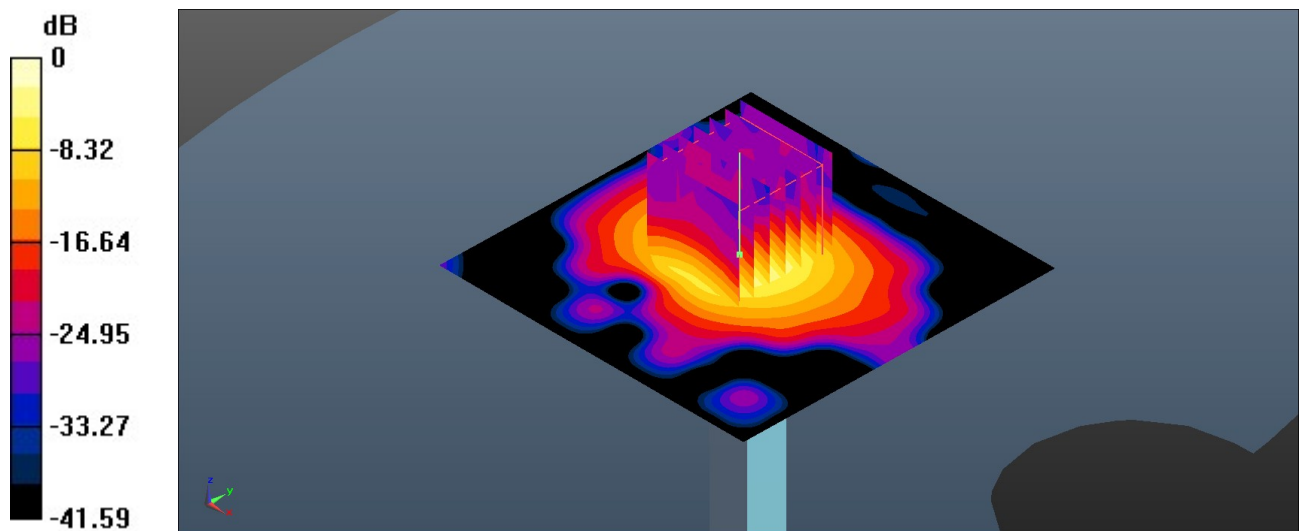
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 44.77 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 17.39 W/kg

SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.05 W/kg

Maximum value of SAR (measured) = 9.90 W/kg



0 dB = 9.90 W/kg = 9.96 dBW/kg



Appendix B. Plots of High SAR Measurement

The plots are shown as follows.

01_LTE Band 12_10M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch23095

Communication System: Band 12, E-UTRA/FDD; Frequency: 707.5

Medium: HSL. Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 42.0$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

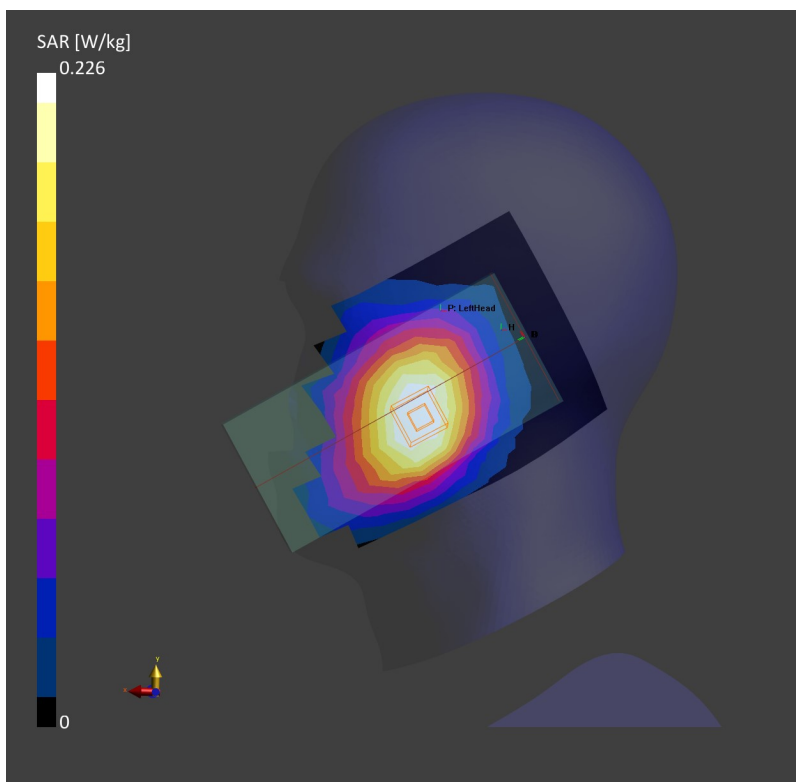
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.218 W/kg; SAR (10g) = 0.153 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.03 dB

SAR (1g) = 0.226 W/kg; SAR (10g) = 0.178 W/kg;



02_LTE Band 13_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch23230

Communication System: Band 13, E-UTRA/FDD; Frequency: 782.0

Medium: HSL. Medium parameters used: $f = 782.0$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 41.8$

Ambient Temperature: 23.1°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(10.25, 10.25, 10.25); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

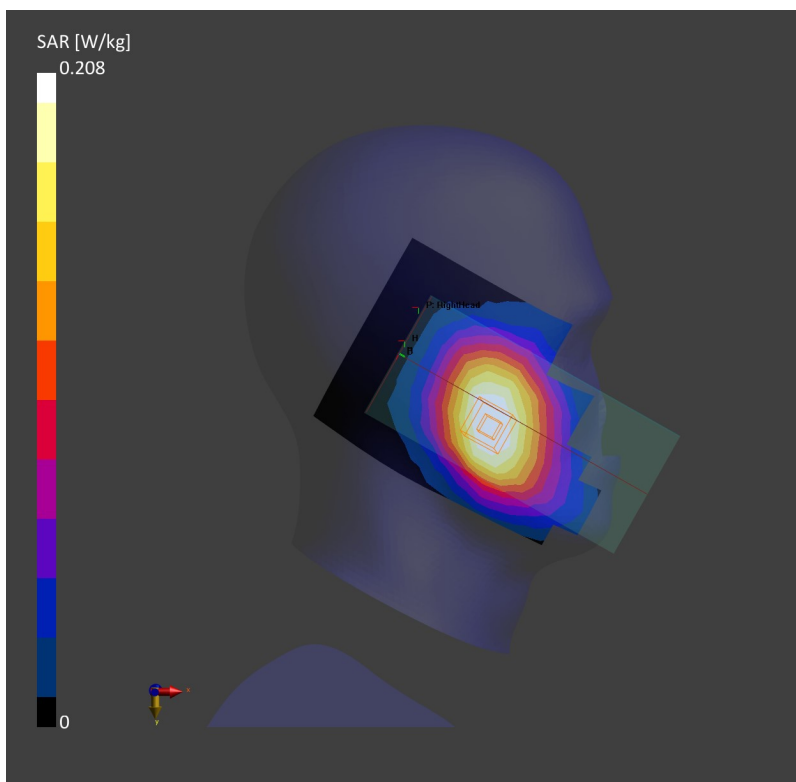
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.198 W/kg; SAR (10g) = 0.137 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.04 dB

SAR (1g) = 0.208 W/kg; SAR (10g) = 0.164 W/kg;



03_GSM850_GPRS (2 Tx slots)_Right Cheek_0mm_Ch189

Communication System: GSM 850; Frequency: 836.4

Medium: HSL. Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.930$ S/m; $\epsilon_r = 41.0$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

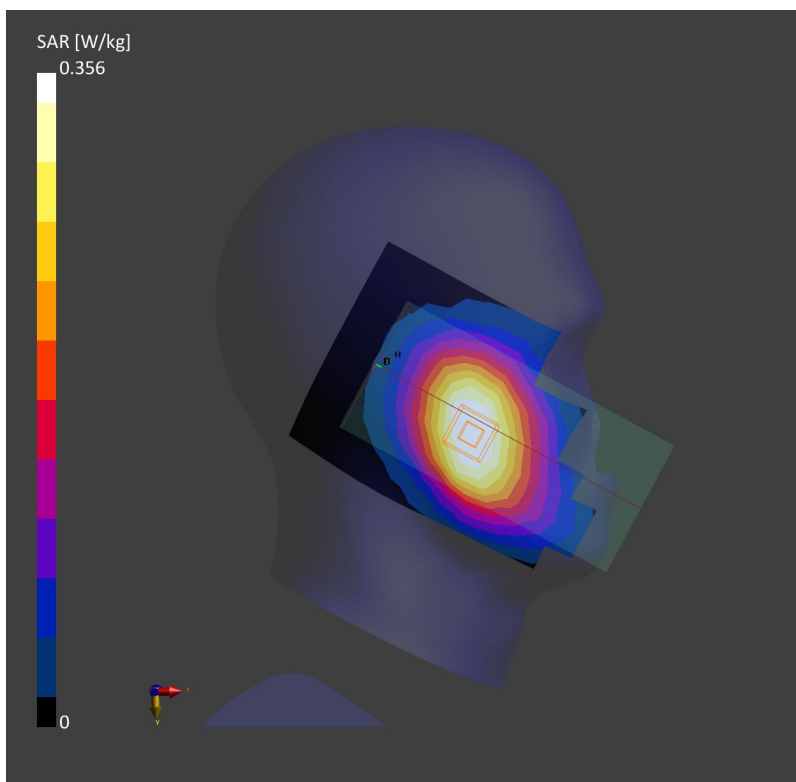
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.339 W/kg; SAR (10g) = 0.234 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.03 dB

SAR (1g) = 0.356 W/kg; SAR (10g) = 0.276 W/kg;



04_WCDMA V_RMC 12.2Kbps_Left Cheek_0mm_Ch4182

Communication System: Band 5, UTRA/FDD; Frequency: 836.4

Medium: HSL. Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.930$ S/m; $\epsilon_r = 41.0$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

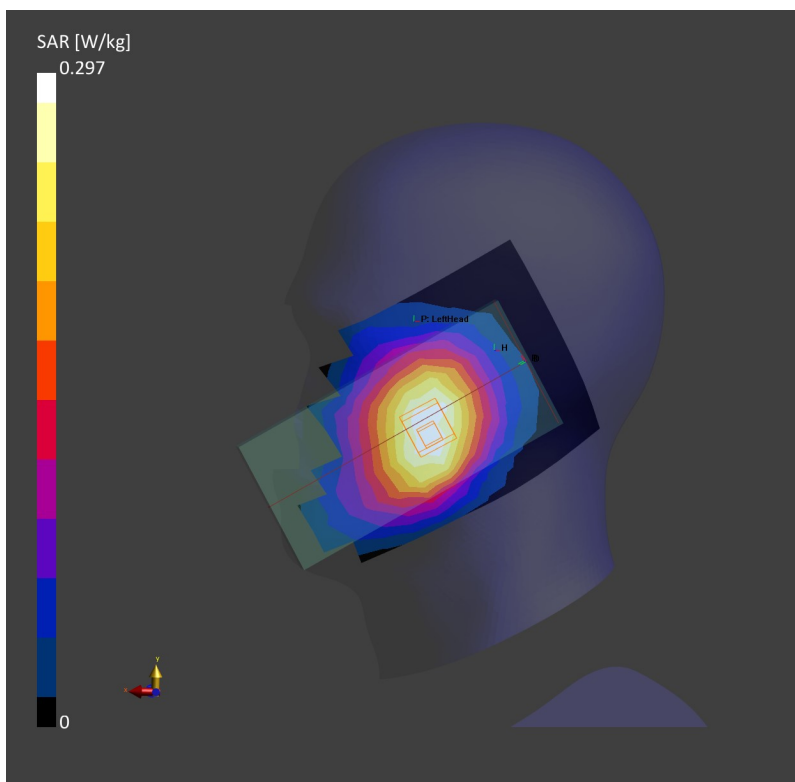
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.276 W/kg; SAR (10g) = 0.189 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.05 dB

SAR (1g) = 0.297 W/kg; SAR (10g) = 0.230 W/kg;



05_LTE Band 26_15M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch26865

Communication System: Band 26 E-UTRA/FDD; Frequency: 831.5

Medium: HSL. Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.927$ S/m; $\epsilon_r = 40.9$

Ambient Temperature: 23.2°C; Liquid Temperature: 22.7°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(9.98, 9.98, 9.98); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

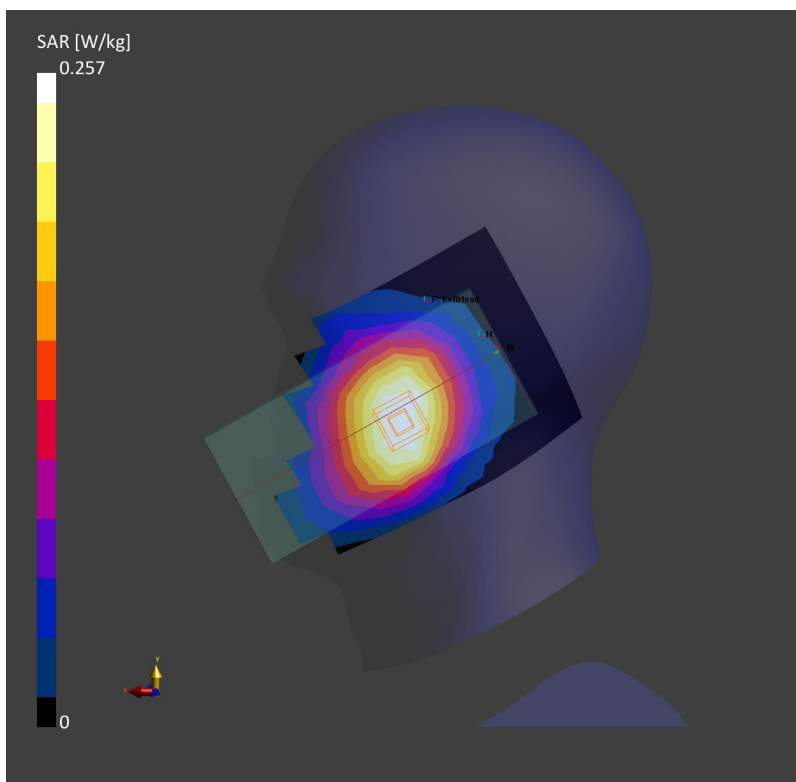
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.243 W/kg; SAR (10g) = 0.168 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.02 dB

SAR (1g) = 0.257 W/kg; SAR (10g) = 0.200 W/kg;



06_WCDMA IV_RMC 12.2Kbps_Right Cheek_0mm_Ch1413

Communication System: Band 4, UTRA/FDD; Frequency: 1732.6

Medium: HSL. Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.40$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

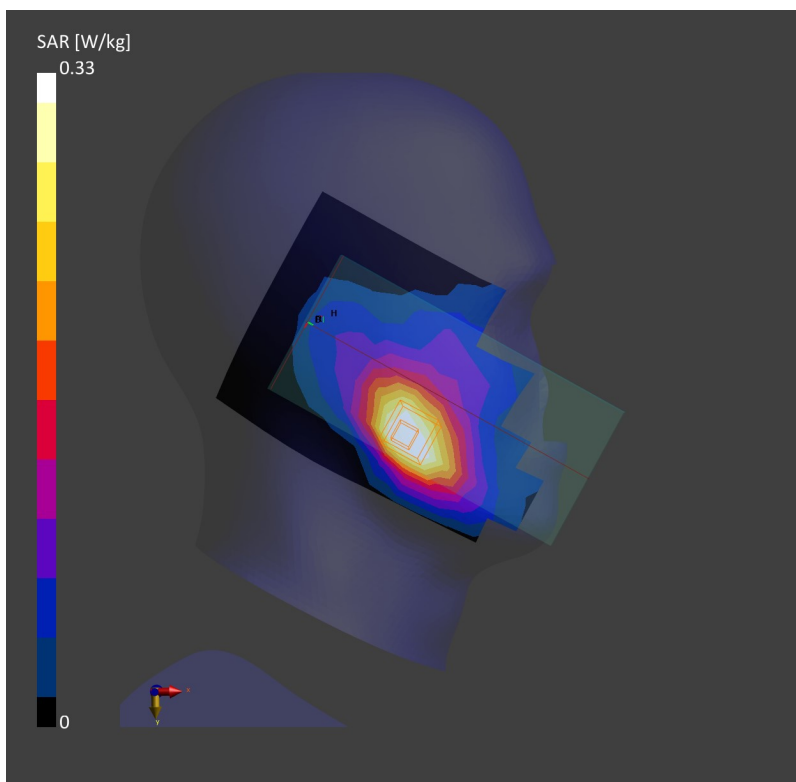
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.317 W/kg; SAR (10g) = 0.186 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.07 dB

SAR (1g) = 0.330 W/kg; SAR (10g) = 0.213 W/kg;



07_LTE Band 66_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch132322

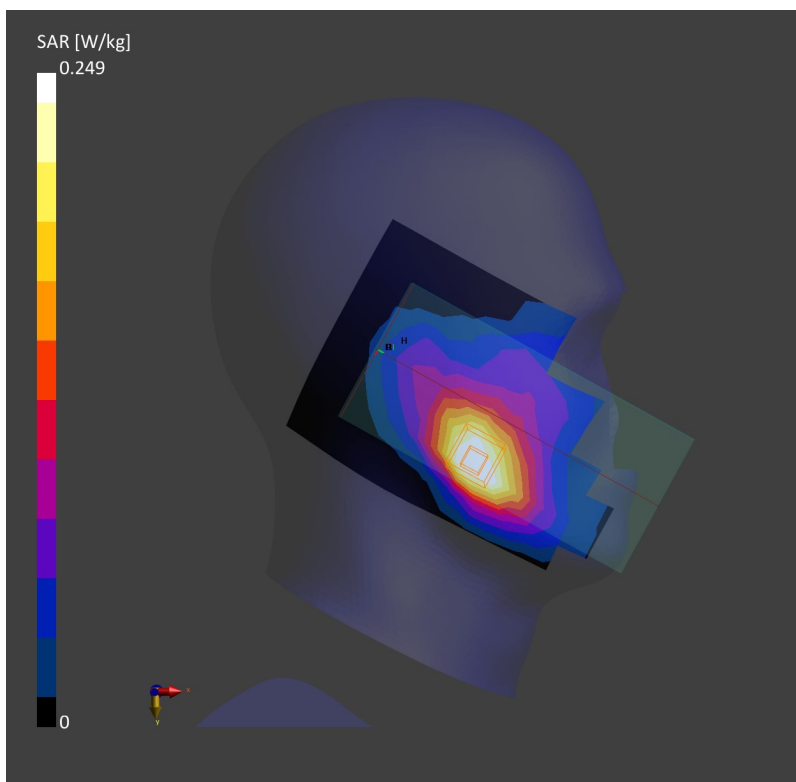
Communication System: Band 66, E-UTRA/FDD; Frequency: 1745.0
Medium: HSL. Medium parameters used: $f = 1745.0$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.7$
Ambient Temperature: 23.3°C; Liquid Temperature: 22.6°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.45, 8.45, 8.45); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm
SAR (1g) = 0.241 W/kg; SAR (10g) = 0.141 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm
Power Drift = -0.02 dB
SAR (1g) = 0.249 W/kg; SAR (10g) = 0.161 W/kg;



08_GSM1900_GPRS (2 Tx slots)_Right Cheek_0mm_Ch661

Communication System: PCS 1900; Frequency: 1880.0

Medium: HSL. Medium parameters used: $f = 1880.0$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.8°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

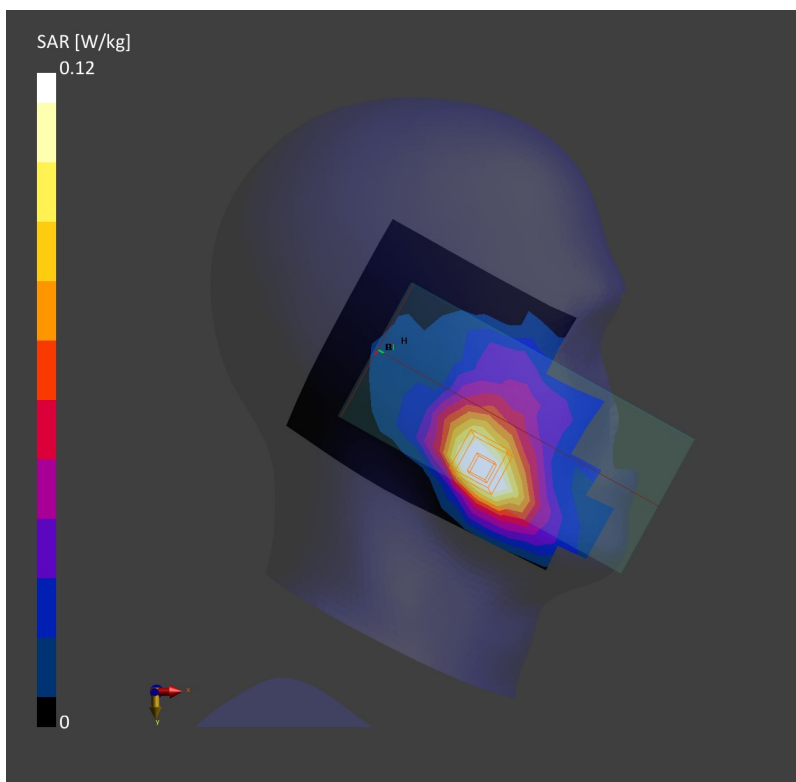
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.119 W/kg; SAR (10g) = 0.068 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.07 dB

SAR (1g) = 0.120 W/kg; SAR (10g) = 0.077 W/kg;



09_WCDMA II_RMC 12.2Kbps_Right Cheek_0mm_Ch9400

Communication System: Band 2, UTRA/FDD; Frequency: 1880.0

Medium: HSL. Medium parameters used: $f = 1880.0$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.8°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

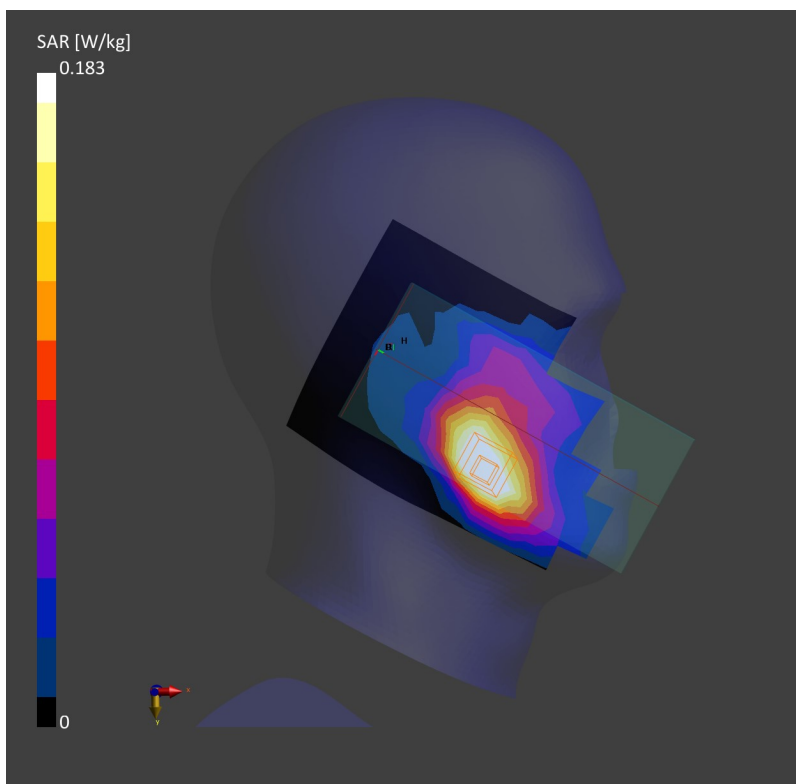
Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.191 W/kg; SAR (10g) = 0.109 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = -0.14 dB

SAR (1g) = 0.183 W/kg; SAR (10g) = 0.106 W/kg;



10_LTE Band 2_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch18900

Communication System: Band 2, E-UTRA/FDD; Frequency: 1880.0

Medium: HSL. Medium parameters used: $f = 1880.0$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 40.7$

Ambient Temperature: 23.3°C; Liquid Temperature: 22.8°C

DASY6 Configuration:

- Probe: EX3DV4 - SN7592; ConvF(8.13, 8.13, 8.13); Calibrated: 2021-06-24
- Sensor-Surface: 1.4 mm
- Electronics: DAE4 Sn1691; Calibrated: 2021-10-04
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2074; Section: Flat
- Measurement Software: cDASY6 V6.6.0.13926

Area Scan (120.0 mm x 210.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.136 W/kg; SAR (10g) = 0.082 W/kg;

Zoom Scan (32.0 mm x 32.0 mm x 30.0 mm): Measurement Grid: 8.0 mm x 8.0 mm x 5.0 mm

Power Drift = 0.08 dB

SAR (1g) = 0.140 W/kg; SAR (10g) = 0.092 W/kg;

